



SEQUENCE LISTING

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Li, Yi

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<120> Materials and Methods for Delivery and Expression of Heterologous DNA in Vertebrate Cells

<130> UF-221C1XC1

<140> 09/662,254

<141> 2000-09-14

<150> 09/086,651

<151> 1998-05-29

<150> 60/224,479

<151> 2000-08-10

<160> 80

<170> PatentIn version 3.1

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<213> Amsacta moorei entomopoxvirus

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<212> DNA

<213> Amsacta moorei entomopoxvirus

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<213> Amsacta moorei entomopoxvirus

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<213> Amsacta moorei entomopoxvirus

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<213> Amsacta moorei entomopoxvirus

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<212> DNA

<213> Amsacta moorei entomopoxvirus

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tataataaga	taattaattt	aaaatataat	agaaaaaata	ataattattt	tgaattacaa	3180
aatataaaca	aatatactga	ctataattca	tcattaatta	tgtcaaattg	ttataaaaata	3240
tataataata	aattggcatt	aaataatata	aattttaaaa	tatcagaagg	aaaatgtttt	3300
ggaattattg	gtggtaacgg	atgtggaaaa	agtactattt	ttaaaatatt	atctggcgaa	3360
gaatgtgtta	caaaaggaaa	tatttatata	ggatgttcta	acagatcatg	gatattaaaa	3420
tcaaattatt	ttaaaaaat	atcttattgt	tctcaatttt	ttggcataga	tacattttta	3480
acaggaagac	aaaattttaa	attaattatg	atattaaatg	gttttagtga	taaacatata	3540
caatattata	ttaatatttg	gttaaaatta	ttaaatatag	aaaaatatgc	agataaagca	3600

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gtttatacat acagtactgg tattataaaa cgtttaaaaa tagcaatgtc attagcacct 3660
agatcaattt taactttaat ggatgaacca acgtcaggaa tagatattgt atccaaacaa 3720
attatatgga aaactataaa atatattatt aattataatt attataatta ttacaaacat 3780
tccattttta tttcatcaaa taatatagaa gaaatagaat atttgtgctc taatgtgatt 3840
atcctagatt ctggaaatat aatgtataac gatacttttg aaaatattaa aaatatacat 3900
agtactaaaa taattaatat taaattatta cattatgata ataacaaaat ttgtaaaata 3960
aaaaataaat taaaaaataa aggttttatg ttaaaatcag ataataaatt taaattaaca 4020
ttttgtgtat ctaaaaatat taatttgaaa tatagtgaat tatttaaaat attatatata 4080
ttaaagaata attattcaga tataattgat caatatgata taagtgatac aaatatagaa 4140
caattatfff ca 4152

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<210> 10

<211> 236

<212> DNA

<213> Amsacta moorei entomopoxvirus

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<400> 10
atgaattatt acattttatt atgtctatff atgttatfff catctagtta taattttaaa 60
ttaataaata ataatatffg taatgaagat tatgatcctg gaatatgtag aataggaata 120
ttagatggta ttataattat aatattaaag attgtaaaat atttatffat ggtggatgtg 180
gtggtaacat gaataatfff aataattatg aagattgtat taataaatgt ttaatt 236

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<210> 11

<211> 1719

<212> DNA

<213> Amsacta moorei entomopoxvirus

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<400> 11
atgaatatat atttaaaaaa tgcacccaat gatacaatat cgcacctgtc aaaatttaca 60
aatcaaataa atgatattat atcatttgat attaataatt ttactaaaaa tgttttgatt 120

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atgcgtaata atattaataa tattagaact aattttgaaa atgtgtctga tgataatagt 180
ataaaaagaa gaataacaga attttttgat aaacaaaata cgccaaattt aaaattagga 240
agtataatat caattattaa atttcaacat ttaactgtaa catatgttaa taaaataata 300
aaagaaattg taacatataa atgtaatact agagaaataa atatagtaaa tttttcatct 360
gtcacatctc aaatttcaaa ctacgataat cctatattaa atgaaatatt aaaacaatat 420
gtatataaac aaaaattaaa aaatgttact gttaataatg ataaaaagaa aataattgat 480
cctgatgatg agaaattagc tgaatctatt aaaaaaatat tagaagaaat attaaaaata 540
ttattaatta taaaaaacia tgattgtgtt gcttatgggt catttacttg ttataatata 600
aatagaagta taaaatataa tgatatagat ttatatagta ctgatgcata tagaatttta 660
atatttttta tgatatatat acattttaact attggacatg acacttgttt atttagtata 720
ccttttataa ctgggcacat atcgttaaaa tataaaaaata tatttataat agattgtata 780
tttttagata attctattat aaatgttatt aataaatctt taattaataa tatatatattt 840
atagatcccg gtttaciaat gttaaataat tttagaatgt tatcagaaaa ttttagatct 900
tataaaatat atgaaaaaat ggaagaatct ttaaataaat ataaaacatt attaaattat 960
tttggttaata ataataataa atttaataaa caaagattaa attattgggt aaaatcagat 1020
gtttgtagaa ataattttcc atatactata gtcgacaata caatattaat atcaataaaaa 1080
gaattgatag atataagtcc atatgattat ataatgattg tattagattc gccgtcagac 1140
ataatggaaa aattatctaa tattagtggg ctatttagta gaaaatatgg tgctttttta 1200
aatgaaatat tttttgaaac aaaaaaaata aaaaataaaa taaatacata tgctggaaac 1260
acaaataaca taacacaatt aattgatgaa aataaattaa taaaattaaa tagaagtgat 1320
ataaatatgc catataatat taatcccaat aagaaatatt taattttcag taatttaaca 1380
acatctacgt atgtttactt tgagaatgat aaaatgactg atatatcagt aaaaaatcta 1440
atatcattta tatcaacagc ttgtttatat aatttgttac acaaaaaaga tgatttttgt 1500
atggaattat attatttaac attacactgt cttacattta ccgaaactag aaaattaaat 1560
gaatataaag taatagatag atataaaata aaaggcgaac ataaagaaat atcatttgtgt 1620
aaaaatttat ttaattcaat atataaaaat aaaagtatgg aggacgaata tatggattat 1680
aatacattta tagatttaac taatataaat ggaggatat 1719

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<210> 12

<211> 286

<212> PRT

<213> Amsacta moorei entomopoxvirus

<400> 12

Met Thr Ile Phe Glu Ile Leu Ile Trp Ile Ile Val Leu Leu Ala Phe
 1 5 10 15

Met Phe Ile Ile Phe Leu Tyr Val Val Leu Tyr Ile Lys Arg Arg Ile
 20 25 30

Tyr Glu Ile Leu Asn Glu Asn Ile Pro Ile Glu Ile Asn Ile Asp Asn
 35 40 45

Val Asn Tyr Pro Ser Glu Leu Tyr Thr Asp Lys Phe Asn Pro Asn Val
 50 55 60

Leu Lys Tyr Leu Ile Lys Ile Leu Leu Asp Phe Asn Thr Glu Ile Thr
 65 70 75 80

Asn Asn Ile Ile Ile His Ser Ile Asp Tyr Met Lys Ile Tyr Tyr Ile
 85 90 95

Ser Tyr Asn Lys Lys Lys Ile Ile Lys Leu Ile Leu Asp Arg Tyr Asn
 100 105 110

Asn Leu Trp Ile Val Ile Arg Gly Thr Leu Thr Tyr Asn Glu Phe Glu
 115 120 125

His Asp Leu Arg Ile Ser Gln Val Lys Ile Asp Asn Cys Asp Met Lys
 130 135 140

Cys His Lys Gly Phe Cys Glu Ile Tyr Ser Lys Ile Gln Lys Pro Leu
 145 150 155 160

Leu Asn Leu Leu Met Thr Leu Ser Pro Asn Lys Ile Phe Ala Leu Gly
 165 170 175

His Ser Leu Gly Gly Gly Ile Leu Ser Ile Ala Ala Tyr Asp Ile Phe
 180 185 190

Asn Ile Leu Asn Lys Lys Glu Ile Ile Leu Tyr Thr Thr Gly Thr Pro
 195 200 205

Arg Val Cys Asn Lys Asp Phe Tyr Asn Asn Cys Asn Lys Tyr Asn Ile
 210 215 220

His Lys Val Glu Asn Leu Ser Asp Val Tyr Ile Asn Ala Ile Pro Ser
 225 230 235 240

Val Leu Pro Phe Tyr Asp Asn Thr Val Tyr Tyr Lys Ile Gly Lys Ile
 245 250 255

Trp Tyr Phe Asp Val Asn Tyr Gly Asn Ile Ile Leu His Lys Leu Glu
 260 265 270

Ile Tyr Phe Asn Asn Ile Asp Asn Leu Lys Tyr Leu Glu Ile
 275 280 285

<210> 13

<211> 151

<212> PRT

<213> Amsacta moorei entomopoxvirus

<400> 13

Met Lys Ala Ile Cys Val Met Thr Gly Lys Val Asn Gly Ile Ile Tyr
 1 5 10 15

Phe Ile Gln Asn Ile Lys Gly Gly Ser Val His Val Lys Gly Lys Ile
 20 25 30

Val Gly Leu Ser Lys Gly Leu His Gly Phe His Val His Glu Tyr Gly
 35 40 45

Asp Val Ser Asn Gly Cys Thr Ser Ala Gly Glu His Phe Asn Pro Tyr
 50 55 60

Asn Arg Gln His Gly Asp Ile Ser Asp Lys Ile His Arg His Val Gly
 65 70 75 80

Asp Phe Gly Asn Val Tyr Ala Asp Glu Asn Gly Val Ala Asn Ile Asp
 85 90 95

Phe His Asp Asp Ile Ile Ser Leu Cys Gly Thr Asn Asn Ile Ile Gly
 100 105 110

Arg Thr Leu Val Val His Asp Ser Pro Asp Asp Leu Gly Lys Thr Asp
 115 120 125

Pro Leu Ser Lys Thr Ser Gly Asn Ser Gly Gly Arg Leu Gly Cys Gly
 130 135 140

Ile Ile Gly Ile Ala Lys Asp
 145 150

<210> 14

<211> 453

<212> PRT

<213> Amsacta moorei entomopoxvirus

<400> 14

Met Tyr Asn Asn Glu Tyr Phe Thr Asn Arg Val Lys Ile His Lys Lys
 1 5 10 15

Ile Asp Thr Ile Asn Lys Asn Val Leu Tyr Leu Ala Tyr Arg Asp Leu
 20 25 30

Arg Val Tyr Asp Asn Trp Ser Phe Leu Tyr Ser Gln Asn Ile Ala Tyr
 35 40 45

Leu Asn Asn Ser Ser Met Tyr Val Leu Tyr Leu Ile Asn Lys Asn Asn
 50 55 60

Asn Ile Asn Ile Arg Gln Tyr Lys Phe Leu Tyr Glu Gly Leu Pro Glu
 65 70 75 80

Phe Glu Ser Gln Cys Lys Lys Cys Asn Val Ser Phe His Leu Leu Ser
 85 90 95

Tyr Asn Asn Asn Ile Ile Ser Asn Phe Ile Asn Lys Tyr Lys Ile Gly

100					105					110					
His	Val	Ile	Ile	Glu	Gln	Met	Pro	Leu	Leu	Phe	His	Lys	Lys	Tyr	Tyr
	115						120					125			
Leu	Asp	Pro	Leu	Lys	Lys	Leu	Asn	Val	Asn	Val	Tyr	Ile	Val	Asp	Ser
	130					135					140				
His	Asn	Ile	Ile	Pro	Val	Trp	Val	Thr	Ser	Asp	Lys	Gln	Glu	Tyr	Asn
145					150					155					160
Ala	Arg	Thr	Ile	Arg	Ile	Lys	Ile	Asn	Lys	Leu	Lys	Asp	Gln	Tyr	Leu
				165				170						175	
Ile	Glu	Phe	Pro	Lys	Val	Lys	Ile	Ser	Asn	Ile	Gln	Pro	Ile	Phe	Val
			180					185					190		
Glu	Asn	Asn	Phe	Asp	Ile	Ile	Pro	Asn	Tyr	Asp	Lys	Lys	Leu	Ile	Asn
	195						200					205			
Ile	Tyr	Glu	Ile	Val	Gly	Gly	Tyr	Thr	Asn	Gly	Ile	Asn	Arg	Met	Asn
	210					215					220				
Asn	Phe	Phe	Lys	Asn	Lys	Ile	Asn	Thr	Tyr	Lys	Asp	Lys	Lys	Asn	Asn
225					230					235					240
Pro	Asn	Tyr	Glu	Asn	Thr	Ser	Ile	Leu	Ser	Pro	Trp	Leu	His	Cys	Gly
				245					250					255	
Met	Ile	Ser	Ala	Gln	Arg	Cys	Val	Leu	Glu	Ala	Asn	Lys	Leu	Lys	Lys
			260					265					270		
Ile	Lys	Asp	Tyr	Asn	Ile	Glu	Ser	Ile	Asp	Ser	Phe	Ile	Glu	Glu	Ile
	275						280					285			
Phe	Ile	Arg	Lys	Glu	Leu	Ser	Asp	Asn	Phe	Cys	Tyr	Tyr	Asn	Asn	Asn
	290					295					300				
Tyr	Lys	Ser	Phe	Ala	Ser	Cys	Pro	Asn	Trp	Ala	Ile	Leu	Thr	Leu	Glu
305					310					315					320
Ile	His	Lys	Thr	Asp	Lys	Arg	Asn	Lys	Ile	Phe	Ser	Leu	Arg	Glu	Leu
				325				330						335	

Glu Tyr Gly Lys Thr Asp Asn Lys Leu Trp Asn Tyr Cys Gln Tyr Tyr
 340 345 350

Leu Leu Lys Phe Gly Tyr Leu Asn Gly Tyr Met Arg Met Phe Trp Ala
 355 360 365

Lys Lys Leu Ile Glu Trp Thr Asn Ser Pro Gln Asp Ala Ile Asp Lys
 370 375 380

Thr Ile Tyr Leu Asn Asp Lys Tyr Phe Phe Asp Gly Tyr Asp Pro Met
 385 390 395 400

Gly Tyr Val Asn Ile Leu Trp Ser Ile Gly Gly Leu His Asp Arg Ala
 405 410 415

Phe Lys Glu Arg Glu Met Tyr Gly Lys Ile Arg Phe Met Ser Gln Pro
 420 425 430

Leu Met Tyr Lys Lys Leu Asn Val Asn Asp Phe Tyr Asn Asn Phe Asp
 435 440 445

Asn Val Ile Lys Ser
 450

<210> 15

<211> 263

<212> PRT

<213> Amsacta moorei entomopoxvirus

<400> 15

Met Met Asp Asp Ile Asn Leu Tyr Asn Glu Ser Glu Arg Leu Gln Thr
 1 5 10 15

Phe Glu Asn Trp Pro Ile Asn Phe Ile Thr Pro Glu Ser Phe Ala Ser
 20 25 30

Asn Gly Phe Tyr Tyr Ile Gly Glu Asn Asp Thr Val Lys Cys Val Tyr
 35 40 45

Cys Gly Val Gln Ile Asn Lys Trp Val Glu Gly Asp Lys Pro Glu Ile
 50 55 60

Asp His Lys Lys Phe Ser Pro Asn Cys Ser Phe Leu Lys Ser Asn Asp
 65 70 75 80

Gly Ile Asp Glu Cys Gly Asn Asn Lys Asn Ile Ser Asn Ile Thr Gln
 85 90 95

Lys Gly Ala Val His Pro Asn Leu Ser Asn Ile Val Glu Arg Leu Lys
 100 105 110

Thr Tyr Lys Glu Trp Pro Ile Ser Met Pro Ile Ser Thr Glu Lys Leu
 115 120 125

Glu Ala Gly Phe Phe Tyr Thr Gly Lys Ser Asp Lys Val Lys Cys Phe
 130 135 140

Tyr Cys Asp Gly Gly Leu Asn Lys Trp Glu Thr Asp Asp Asp Pro Trp
 145 150 155 160

Ile Gln His Ala Arg Trp Phe Asp Lys Cys Asp Tyr Val Lys Leu Val
 165 170 175

Lys Gly Lys Asp Phe Ile Gln Lys Val Met Thr Gln Ser Thr Phe Ile
 180 185 190

Lys Ser Ser Lys Lys Glu Asn Ile Pro Glu Ile Asn Ile Ser Asn Asp
 195 200 205

Glu Lys Asn Asp Ile Lys Leu Cys Lys Ile Cys Tyr Ile Glu Glu Arg
 210 215 220

Val Ile Cys Phe Val Pro Cys Gly His Ile Phe Cys Cys Gly Lys Cys
 225 230 235 240

Ala Ile Ser Met Asp Lys Cys Pro Val Cys Arg Asn Lys Ile Lys Asn
 245 250 255

Leu Thr Arg Val Tyr Tyr Pro
 260

<210> 16

<211> 295

<212> PRT

<213> Amsacta moorei entomopoxvirus

<400> 16

Met Asn Phe Met Pro Gln Tyr Tyr Tyr Ile Ser Asp Ile Asn Asn Glu
 1 5 10 15

Ile Glu Tyr Asp Glu Asn Phe Asn Pro Gly Lys Lys Phe Asp Phe Lys
 20 25 30

Arg Gln Gly Gln Ile Lys Leu Leu Met Asn Glu Ile Arg Phe Leu Thr
 35 40 45

Glu Asp Val Glu Leu His Lys Asn Tyr Lys Asn Glu Asn Ile Asn Ile
 50 55 60

Leu Tyr Ile Gly Ser Gly Lys Gly Tyr His Ile Pro Leu Leu Ile Asn
 65 70 75 80

Met Tyr Ser Asp Tyr Lys Ile Gln Trp Asp Leu Tyr Asp Pro Cys Gly
 85 90 95

His Cys Glu Lys Leu Tyr Asn Ile Gln Lys Asn Asn Asn Asn Ile Lys
 100 105 110

Ile Tyr Asp Thr Tyr Phe Asn Lys Ser Asp Val Glu Lys Tyr Glu Asn
 115 120 125

Ile Asp Asn Leu Leu Phe Ile Thr Asp Ile Arg Thr Val Asp Asn Pro
 130 135 140

Asp Asp Glu Pro Asn Thr Lys Asn Leu Ile Asn Asp Tyr Glu Leu Gln
 145 150 155 160

Asn Tyr Ile Leu Lys Glu Leu Lys Pro Ile Ser Leu Val Lys Gln Arg
 165 170 175

Asp Pro Phe Pro Asn Asp Trp Asp Asp Ser Tyr Lys Leu Ser Ile Pro

180 185 190
 Asp Gly Lys Glu Tyr Ile Gln Cys Phe Gln Lys Tyr Asn Ser Ala Glu
 195 200 205
 Tyr Arg Ile Phe Ile Ser Gly Ile Thr Thr Phe Val Asp Ile Asn Ser
 210 215 220
 Val Ile Leu Asn Lys Arg Gly Ile Asp Arg Lys Leu Ala Trp Tyr Asn
 225 230 235 240
 Met Lys Tyr Arg Phe Gln Asn Asp Asn Asp Tyr Lys Ile Ala Tyr Arg
 245 250 255
 Ile Leu Asn Lys Tyr Ile Lys Ser Glu Asn Lys Pro Ile Leu Lys Lys
 260 265 270
 Tyr Asn Asn Ile Asn Lys Asn Asn Ile Lys Asn Val Ile Arg Ser Leu
 275 280 285
 Ser Lys Glu Met Gly Tyr Tyr
 290 295

<210> 17

<211> 292

<212> PRT

<213> Amsacta moorei entomopoxvirus

<400> 17

Met Asp Val Asn Lys Tyr Ile Tyr Glu Tyr Asn Lys Pro Leu Tyr Tyr
 1 5 10 15
 Thr Tyr Tyr Asp Leu Cys Arg Asn Met Asn Asp Val Ile Tyr Asp Tyr
 20 25 30
 Asn Asn Asn Thr Ile Lys Lys Tyr Met Asp Ile Leu Leu Ser Gln Ile
 35 40 45
 Gln Phe Leu Ser Asn Ile Asn Ile Lys Lys Ile Cys Asn Asn Thr Asn
 50 55 60

Gly Ile Val Asn Ile Leu Tyr Ile Gly Ser Ser Lys Ala Tyr His Phe
65 70 75 80

Asn Ile Leu Asn Glu Leu Tyr Lys Asn Leu Thr Asn Ile Gln Trp Tyr
85 90 95

Phe Tyr Asp Ile Ile Asp Pro Cys Ile Ser Val Glu Arg Leu Ser Tyr
100 105 110

Asn Ile Ile Phe Asn Arg Leu Phe Thr Glu Asp Asp Ile Ile Asp Phe
115 120 125

Lys Asp Lys Tyr Pro Leu Ile Leu Ile Tyr Asp Tyr Asp Asp Lys Ser
130 135 140

Asn Val Arg Asp Leu Leu Tyr His Tyr Asn Met Gln Asn Asn Ile Ile
145 150 155 160

Ile Tyr Leu Asn Pro Thr Tyr Ser Leu Leu Lys Phe Lys Tyr Met Pro
165 170 175

Ile Asn Lys Trp Asn Asn Ser Phe Asn Asp Tyr Glu Tyr Ile Ser Thr
180 185 190

Gly Ile Lys Tyr Leu Pro Thr Ile Lys Ser Leu His Thr Arg Asn Ile
195 200 205

Ile Asp Asn Lys Asn Ile Met Thr Leu Thr Phe Asp Glu Ile Glu Ser
210 215 220

Glu Asn Tyr Tyr Glu Lys Met Asn Tyr Tyr Asn Asn Cys Ser Gly Tyr
225 230 235 240

Asn Asp Ile Tyr Asn Asn Ile Ser Gly Tyr Ile Leu Asn Lys Ser Asn
245 250 255

Leu Tyr Asp Asn Asn Asn Ser Ala Tyr Asn Ile Leu Lys Ile Tyr Glu
260 265 270

Lys Asn Ile Ile Asn Thr Ile Asn Glu Asp Lys Ile Phe Arg Ser Lys
275 280 285

Glu Lys Tyr Ile
290

<210> 18

<211> 1089

<212> PRT

<213> Amsacta moorei entomopoxvirus

<400> 18

Met Pro Phe Leu Gly Thr Gly Ile Leu Lys Phe Asp Ile Thr Gln Leu
1 5 10 15

Gln Asn Lys Glu Lys Gly Ser Asp Tyr Asn Ala Ile Arg Tyr Leu Lys
20 25 30

Arg Ile Leu Asn Lys Pro Cys Asp Asn Asp Asp Ile Leu Ile Pro Tyr
35 40 45

Asp Lys Leu Glu Ser Lys Glu Ile Asn Ile Ile Tyr Asn Trp Tyr Ile
50 55 60

Ile Lys Pro Ser Ser Leu Glu Gln Phe Ile Val Cys Lys Cys Lys Asp
65 70 75 80

Tyr Asp Thr Glu Glu Ile Ile Tyr Ile Leu Phe Asp Ile Tyr Glu Tyr
85 90 95

Phe Leu Cys Asp Tyr Glu Leu Ser Glu Ser Asn Thr Lys Leu Lys Asn
100 105 110

Ile Lys Asn Asn Ile Lys Tyr Lys Asn Ser Phe Asn Ser Ser Tyr Leu
115 120 125

Val Leu Glu Asp Tyr Lys Ile Ile Thr Asn Glu Val Asn Ile Gln Tyr
130 135 140

Tyr Tyr Asn Tyr Thr Glu Asp Ser Lys Ile Thr Leu Asn Asn Asn Asp
145 150 155 160

Leu Val Leu Phe Met Thr Pro Tyr Lys Ile Glu Lys Ile Tyr Ser Lys
 165 170 175

Asn Ile Phe Ile Asn Gln Tyr Arg Trp Phe Tyr Val Leu Asn Asn Ile
 180 185 190

Glu Pro Ser Gly Ser Tyr Arg Ile Asn Met Asp Asn Met Gln Lys Ile
 195 200 205

Lys Thr Tyr Asn Lys Asn Lys Thr Ser Tyr Tyr Cys Lys Asn Pro Lys
 210 215 220

Leu Leu Phe Ser Asn Tyr Val Lys Ile Asp Lys Ile Pro Ala Ser Arg
 225 230 235 240

Val Ser Ile Asp Ile Glu Cys Gln His Phe Gly Glu Phe Pro Thr Ala
 245 250 255

Asn Lys Phe Pro Ile Ser His Ile Cys Ile Asp Trp Tyr Met Asp Lys
 260 265 270

Asn Thr Asn Pro Ile Lys Lys Ile Ile Thr Leu Ile Asn Tyr Glu Ile
 275 280 285

Ile Lys Asn Tyr Val Gly Lys Lys Asp Lys Phe Ile Tyr Thr Glu Val
 290 295 300

Asn Lys Leu Leu Asn Thr Asn Lys Val Tyr Ile Thr Ile Tyr Cys Thr
 305 310 315 320

Glu Lys Tyr Met Leu His Phe Val Leu Tyr Thr Leu Arg Gln Asp Phe
 325 330 335

Asp Tyr Val Leu Thr Tyr Asn Gly His Asn Phe Asp Phe Thr Tyr Ile
 340 345 350

Gln Arg Arg Lys Ile Asn Lys Leu Lys Gly Leu Cys Leu Asp Asn Val
 355 360 365

Tyr Ser Thr Asn Glu Ile Lys Ile Ser Lys Phe Ser Tyr Asn Gln Asp
 370 375 380

Thr Thr Tyr Glu Ile Asp Ser Thr Asn Gly Ile Ile Phe Leu Asp Leu

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385                               390                               395                               400

Tyr Asn Tyr Ile Lys Lys Thr Tyr Pro Ser Ser Asn Tyr Lys Leu Ser
      405                               410                               415

Glu Ile Thr Lys Glu Arg Phe Asn Ile Phe Cys Lys Ile Ser Tyr Asn
      420                               425                               430

Asn Asn Glu Tyr Ile Ile Glu Pro Leu Asn Thr Lys Ala Asn Lys Asn
      435                               440                               445

Lys Ile Ser Ile Phe Tyr Asp Val Ile Arg Thr Ala Asn Tyr Cys Phe
      450                               455                               460

Ile Asn Asn Asn Pro Tyr Lys Lys Asn Lys Thr Glu Ile Ile Asp Asp
465                               470                               475                               480

Ile Glu Lys Leu Tyr Asp Leu Thr Ser Ile Lys Asn Ser His Asn Lys
      485                               490                               495

Lys Phe Thr Ile Tyr Glu Asn Asp Ile Pro Ile Asn Asp Asn Tyr Ala
      500                               505                               510

Thr Val Met Leu Ser Lys Asp Asp Val Asp Ile Gly Asp Lys Asn Ala
      515                               520                               525

Tyr Val Phe Thr Lys Glu Lys Ser Asp Asn Ile Ala Tyr Tyr Cys Thr
      530                               535                               540

His Asp Thr Val Leu Cys Asn Cys Ile Phe Lys Tyr Asp Met Ile His
545                               550                               555                               560

Asp Lys Ile Ile Ala Phe Ser Asn Glu Tyr Leu Leu Pro Gln Cys Met
      565                               570                               575

Ala Phe Lys Tyr Lys Ser Ser Asn Asn Ile Ser Gly Leu Leu Lys Thr
      580                               585                               590

Leu Tyr Ser Asn Lys Thr Met Ile Tyr Pro Gly Asn Val Glu Phe Glu
      595                               600                               605

Lys Phe Glu Gly Gly Tyr Val Ile Glu Pro Lys Gln Lys Tyr Ile Asp
      610                               615                               620

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Ser Leu Thr Ala Val Phe Asp Phe Asn Ser Glu Tyr Pro Ser Ile Ile
625 630 635 640

Ile Glu Ala Asn Leu Ser Pro Glu Val Val Lys Val Ile Lys Leu Phe
645 650 655

Asp Asp Glu Glu Ala Ala Asn Lys Val Glu Lys Tyr Leu Lys Asp Asn
660 665 670

Tyr Lys Tyr Pro Asp Tyr Cys Tyr Ile Lys Ile Ile Lys Asp Lys Met
675 680 685

Tyr Lys Phe Ile Leu Met Asp Arg Arg Glu Leu Gly Val Thr Thr Gln
690 695 700

Met Val Lys Gly Arg Glu Met Lys Asn Met Tyr Lys Asp Leu Lys Asn
705 710 715 720

Lys Asn Lys Asp Asn Val Asp Leu His Asn Phe Tyr Ser Ser Ala Leu
725 730 735

Tyr Ser Lys Lys Ile Thr Ile Asn Ser Met Tyr Gly Leu Ser Gly Ser
740 745 750

Glu Arg Phe Ile Phe Asn Ser Pro Tyr Cys Ala Glu Tyr Cys Val Gln
755 760 765

Gly Gln Asn Cys Ile Lys Tyr Ile Gln Thr Leu Val Asn Asn Ser Lys
770 775 780

Tyr Ile Asp Asn Val Leu Ile Leu Asn Lys Cys Asn Asn Pro Phe Thr
785 790 795 800

Asn Glu Pro Ile Lys Thr Asn Tyr Pro Gly Asn Leu Asn Val Asn Phe
805 810 815

Thr Phe Asn Val Lys Tyr Gly Asp Thr Ser Leu Phe Ile Thr Val Asn
820 825 830

Phe Glu Ser Lys Phe Asn Ser Lys Glu Glu Lys Val Lys Val Gly His
835 840 845

Lys Cys Phe Thr Phe Leu Gly Asn Val Ile Asn Asp Lys Lys Asn Lys
 850 855 860

Ile Leu Thr Asp Asn Phe Glu Phe Glu Tyr Glu Lys Met Tyr Tyr Trp
 865 870 875 880

Met Ile Leu Leu Lys Lys Lys Tyr Ile Gly Glu Val Val Ile Asn Met
 885 890 895

Asp Pro Leu Gln Leu Met Asp Asp Thr Lys Gly Thr Ala Leu Ile Arg
 900 905 910

Arg Asp Cys Thr Val Ile His Lys Thr Ile Leu Lys Asn Thr Ile Asn
 915 920 925

Ile Leu Lys Asp Phe Leu Thr Asn Asp Asn Thr Gly Ile Asn Ile Asn
 930 935 940

Val Lys Ile Asn Asp Tyr Leu Ser Ser Ala Phe Lys Asn Ile Ile Glu
 945 950 955 960

Asn Ile Gln Asn Leu Asp Ile Asn Asp Phe Lys Lys Ser Val Lys Tyr
 965 970 975

Ser Gly Val Tyr Lys Asp Pro Asn Tyr Pro Ile Glu Leu Cys Val Lys
 980 985 990

Glu Tyr Asn Leu Lys Asn Pro Asn Asp Lys Ile Thr Lys Gly Gln Arg
 995 1000 1005

Phe Asp Phe Ile Tyr Ala His Lys Ile Asn Glu Trp Ser Lys Asp
 1010 1015 1020

Lys Lys Trp Asn Ile Lys Tyr Thr Ile Asp Ile Ser Lys His Val
 1025 1030 1035

Ile Ile Leu Glu Asp Tyr Leu Lys Asn Lys Asn Asn Tyr Arg Ile
 1040 1045 1050

Cys Val Glu Lys Tyr Ile Lys Asp Ile Leu Ser Asn Leu Asp Gln
 1055 1060 1065

Ile Ile Asn Asp Lys Asn Ile Ile Lys Asn Ile Asp Ile Met Leu
 1070 1075 1080

Asn Ser Tyr Glu Pro Gln
 1085

<210> 19

<211> 611

<212> PRT

<213> Amsacta moorei entomopoxvirus

<400> 19

Met Asn Asp Ile Asp Lys Asn Asn Ile Leu Asn Asn Lys Tyr Ile Gly
 1 5 10 15

Phe His Thr Ile Lys Glu Tyr Leu Asp Lys Tyr Lys Cys Pro Leu Gln
 20 25 30

Phe Phe Val Gly Ala Pro His Ser Tyr Gln Ser Thr Glu Tyr Leu Asn
 35 40 45

Lys Ser Tyr Thr Gly Arg Thr Ile Phe Val His Ser Lys Tyr Val Gly
 50 55 60

Asn Ile Ala Lys Asp Lys Asn Ser Val Ala Leu Arg Asn Ile Lys Lys
 65 70 75 80

Glu Leu Leu Tyr Leu Gln Asn Met Glu Ile Asn Asn Ser Gly Thr Val
 85 90 95

Val His Leu Ser Leu Tyr Tyr Asn Lys Asn Gln Glu Glu Ser Leu Lys
 100 105 110

Tyr Val Ala Asn Glu Leu Asn Lys Phe Cys Lys Val Leu Asp Asn Ile
 115 120 125

Asp Asn Asn Tyr Phe Asn His Ile Ile Phe Glu Thr Thr Asn Asp Ile
 130 135 140

Arg His Leu Gly Ala Lys Thr Glu Asp Phe Lys Ile Leu Tyr Asp Asn

145		150		155		160
Leu Asp Ser Asn	Ala Lys Lys Arg Ile	Lys Phe Cys Ile	Asp Thr Ser			
	165	170	175			
His Ile Phe Val	Thr Phe Tyr Asn Ile	Asn Thr Val Lys	Gly Met Ile			
	180	185	190			
Asn Tyr Leu Ala	Lys Phe Asp Leu Leu Ile	Gly Leu Asp Lys	Ile Ile			
	195	200	205			
Leu Ile His Leu	Asn Asp Ser Cys Gly Leu	Pro Leu Ser Ser	Tyr Lys			
	210	215	220			
Pro His Glu Ala	Ile Gly Lys Gly Asn Ile	Phe Lys Asn Tyr	Lys Asp			
	225	230	235	240		
Asp Leu Ser Ser	Leu His Ile Leu Lys	Thr Tyr Ala Thr	Leu Tyr Asn			
	245	250	255			
Ile Pro Cys Ile	Leu Glu Arg Arg Asn	Glu Val Pro Asp	Gln Ser Ile			
	260	265	270			
Met Asp Glu Met	Lys Ile Tyr Leu Asp	Ile Lys Gln Asn	Met Asn Ile			
	275	280	285			
Asp Asn Phe Met	Ser Met Ile Asn Lys	His Lys Ile Leu	Leu Val Leu			
	290	295	300			
Asn Lys Phe Ala	Asp Ile Tyr Asn Ile	Leu Asn Glu Ile	Lys Tyr Lys			
	305	310	315	320		
Ala Phe Leu Asn	Ala Ala Tyr Val Ile	Gln Asn Thr Pro	Val Ile Ile			
	325	330	335			
Phe Lys Tyr Lys	Asn Val Asn Asn Lys	Phe Ile Leu Asn	Glu Ser Lys			
	340	345	350			
Glu Asn Ile Ile	Gln Lys Tyr Lys	Asn Leu Lys Ser	Ile Gly Thr Ser			
	355	360	365			
Ile Ser Asp Ile	Ile Tyr Glu Leu Leu	Ser Thr Asn Lys	Val Glu Lys			
	370	375	380			

Leu Ile Asn Leu Glu Asn Asn Ser Ser Tyr Lys Tyr Ile Lys Ile Leu
 385 390 395 400

Thr Ser Ile Leu Phe Ile Gly Pro Lys Lys Ala Gln Ser Leu Leu Lys
 405 410 415

Leu Asn Ile Lys Asn Ile Asn Asp Leu Ile Glu Lys Lys Asp Asn Ile
 420 425 430

Ile Asn Met Gly Ile Leu Thr Ile His Glu Ile Lys Ile Ile Glu Tyr
 435 440 445

Ile Lys Asp Met Glu Pro Val Ser Arg Asn Phe Ile Asn Asp Leu Lys
 450 455 460

Gln Asn Ile Asn Leu Ser Ser Glu Cys Glu Trp Tyr Ile Leu Gly Ser
 465 470 475 480

Tyr Ala Arg Gly Leu Asp Tyr Ser Lys Asp Ile Asp Ile Leu Ile Ile
 485 490 495

Asp Phe Thr Ile Asp Lys Phe Leu Glu Glu Leu Lys Lys Ile Ala Lys
 500 505 510

Leu Met Tyr Ile Ile Arg Lys Gly Asn Asn Ile Phe Ser Gly Val Phe
 515 520 525

Leu Trp Gln Gly Lys Lys Phe Ile Leu Glu Ile Asn Lys Val Asn Asn
 530 535 540

Lys Glu Lys Tyr Thr Ala Ile Met His Phe Thr Gly Ser Lys Lys Phe
 545 550 555 560

Asn Ile Phe Met Arg Asn Ile Ala Lys Ser Glu Asn Met Ile Leu Asn
 565 570 575

Gln Tyr Ser Leu Lys Lys Asp Asn Val Glu Leu Pro Ile Thr Lys Glu
 580 585 590

Glu Asp Ile Phe Asp Tyr Leu Lys Ile Lys Tyr Ile Pro Asn Asn Lys
 595 600 605

Arg Asn Ile
610

<210> 20

<211> 1381

<212> PRT

<213> Amsacta moorei entomopoxvirus

<400> 20

Met Tyr Phe Asn Ile Leu Asn Gly Leu Leu Trp Lys Tyr Tyr Ile Ile
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Lys Arg Lys Lys Tyr Ile Tyr Asp Met Leu Glu Tyr Leu Leu Leu Ile
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Leu Phe Phe Thr Leu Leu Tyr Ser Phe Lys Lys Asn Ile Lys Tyr Tyr
35 40 45

Asp Asn Asp Leu Asn Asn Ile Asn Lys Ile Asn Asn Asn Thr Asn Ile
50 55 60

Ile Tyr Tyr Pro Lys Ser Asn Ile Ser Ile Lys Ile Ile Glu Asn Val
65 70 75 80

Ala Lys Glu Leu Lys Ile Asn Lys Tyr Tyr Gly Ser Ser Asn Glu Asn
85 90 95

Glu Ile Ile Asn Phe Ile Asp Thr Asn Glu Thr Ile Phe Ile Leu Phe
100 105 110

Asn Asn Thr Cys Glu Asn Leu Leu Tyr Thr Ile Arg Phe Asn Asn Asn
115 120 125

Glu Asn Asn Asp Arg Leu Leu Ile Asn Ile Gln Trp Leu Ile Asn Met
130 135 140

Asn Tyr Leu Arg Leu Leu Ser Asn Lys Asn Ile Asn Ile Asp Ile Asp
145 150 155 160

Ile Asn Glu Tyr Ile Tyr Lys Asn Phe Asn Thr Asn Ile Leu Phe Tyr
 165 170 175

Thr Tyr Tyr Ser Ile Leu Ile Ile Ala Phe Ile Ser Phe Ile Leu Lys
 180 185 190

Asn Asn Asn Asp Asn Asn Asp Pro Met Phe Lys Ile Ile Lys Val Pro
 195 200 205

Lys Ile Leu Ile Tyr Ile Ser Asn Phe Ile Cys Ser Ile Pro Phe Gly
 210 215 220

Ile Ile Tyr Ser Val Phe Gly Thr Ile Ile Leu Thr Ile Ser Glu Asp
 225 230 235 240

Pro Leu Ile Asn Asn Asn Asn Asn Ile Ile Met Phe Leu Ile Leu Leu
 245 250 255

Ile Tyr Phe Ile Ser Val Ile Ser Met Ala Tyr Leu Asn Phe Phe Ile
 260 265 270

Leu Leu Ile Tyr Lys Tyr Lys Ile Phe Val Ile Met Cys Val Tyr Val
 275 280 285

Leu Thr Ile Ile Pro Ile Thr Leu Tyr Asn Asn Leu Asn Ser Asp Ile
 290 295 300

Asn Ile Phe Ile Gly Leu Ile Pro His Ile Pro Leu Tyr Trp Ile Phe
 305 310 315 320

Asp Gln Leu Asn Tyr Val Glu Lys Gln Asn Lys Ser Leu Thr Phe Asn
 325 330 335

Asn Asn Ile Ser Tyr Ser Ile Tyr Ser Lys Ser Ile Leu Ile Ser Ile
 340 345 350

Ile Tyr Leu Ile Leu Gln Ser Phe Ile Tyr Ile Ser Ile Ile His Ile
 355 360 365

Ile Lys Leu Ile Tyr Lys Ile Cys Lys Lys Tyr Met Lys Met Lys Tyr
 370 375 380

Ile Tyr Ile Ile Asn Glu Asn Asn Asn Tyr Met Leu Glu Thr Glu Asn

385		390		395		400
Asn Asp Tyr Tyr Val Lys Ile Gln Asn Ile Tyr Lys Tyr Tyr Asp Asn						
	405			410		415
Asn Phe Ile Leu Asn Asn Ile Cys Leu Asp Ile Ile Lys Asn Asn Thr						
	420			425		430
Thr Val Leu Leu Gly Asn Asn Ser Ala Gly Lys Ser Thr Leu Leu Ser						
	435			440		445
Ile Ile Phe Gly Leu Ile Lys Pro Asn Lys Gly Lys Ile Leu Thr Asn						
	450			455		460
Asn Ile Lys Ile Gly Tyr Cys Pro Gln Asn Asn Ile Phe Thr Asp Phe						
	465			470		475
						480
Thr Val Lys Glu Asn Ile Tyr Leu Phe Asn Ile Leu Arg Gly Leu Ser						
				485		490
						495
Ser Leu Gln Ser Lys Ile Lys Thr Asn Glu Ile Ile Ile Tyr Leu Lys						
	500			505		510
Leu His Asp Ile Glu Asn Cys Ile Ile Thr Glu Leu Ser Glu Cys Ser						
	515			520		525
Lys Arg Lys Leu Gln Leu Ala Phe Ser Leu Ile Asp Asp Ser Asp Phe						
	530			535		540
Ile Leu Ile Asp Glu Pro Thr His Asn Ile Asp Leu Lys Ser Lys Gln						
	545			550		555
						560
Glu Ile Trp Asp Leu Ile Ser Leu Leu Lys Arg Asn Lys Thr Ile Leu						
	565			570		575
Ile Thr Thr His Cys Ile Asp Glu Val Glu Leu Leu Ala Asp Asn Leu						
	580			585		590
Ile Ile Leu Asn Asn Gly Asn Val Lys Tyr Asn Ser Thr Leu Phe Asn						
	595			600		605
Ile Lys Lys Asp Ala Asn Val Thr Tyr Lys Leu Ser Ile His Asn Asn						
	610			615		620

Ser Thr Asp Asp Lys Ile Lys Asn Ile Ile Ile Asn Ser Gly Phe Ile
625 630 635 640

Ile Leu Asn Ile Asn Lys Ile Asp Glu Asn Asn Ser Ile Tyr Asn Ile
645 650 655

Tyr Lys Thr Glu Asn Ser Asn Phe Leu Lys Leu Phe Glu Leu Leu Glu
660 665 670

Asn Val Asn Cys Asp Ile Ile Tyr Phe Lys Ser Asn Thr Leu Asn Asp
675 680 685

Ile Leu Tyr Lys Leu Cys Ser Glu Asp Ile Ile Ile Pro Asp Asp Ser
690 695 700

Tyr Ile Asn Asn Leu Asn Tyr Asn Asp Met Phe Ile Ser Glu Ile Met
705 710 715 720

Gly Phe Asn Lys Ile Met Arg Gln Phe Ile Glu Leu Phe Lys Arg Asn
725 730 735

Ile Tyr Tyr Ile Arg Lys Asn Ile Leu Leu Phe Val Ile Ile Asn Phe
740 745 750

Ile Leu Ser Ile Leu Ile Val Tyr Val Gly Ile Val Tyr Ile Lys Lys
755 760 765

Tyr Glu Asn Leu Tyr Leu Tyr Asn Phe Val Ile Ile Asn His Asn Ile
770 775 780

Asp Asn Phe Ile Asn Asn Ser Asn Tyr Leu Leu Asp Ile Lys His Asn
785 790 795 800

Ser Thr Tyr Asn Lys Ile Thr Tyr Ile Pro Leu Phe Lys Tyr Ser Gly
805 810 815

Ser Ile Ala Ile Asn Ile Ile Ser Asn Ile Ile Ala Lys Ile Asn Ile
820 825 830

Pro Asn Ile Glu Lys Asp Ile Ile Thr Thr Ile Phe Tyr Pro Met Tyr
835 840 845

Gln Asn Lys Thr Ser Ile Leu Thr Asn Leu Phe Ile Ser Ile Ile Leu
850 855 860

Gln Leu Tyr Cys Ile Asn Tyr Asn Lys Leu Ile Lys Lys Asp Asn Ile
865 870 875 880

Asn Lys Thr Arg Lys Gln His Ile Ile Asn Gly Cys Asn Pro Glu Leu
885 890 895

His Trp Ile Thr Thr Leu Leu Phe Asn Met Ile Leu Phe Ser Ile Ser
900 905 910

Val Ile Pro Ile Ile Leu Tyr Met Leu Asn Ile Lys Ser Phe Phe Asp
915 920 925

Leu Ile Ile Leu Tyr Phe Ile Leu Ile Ile Asn Ala Leu Ser Phe Met
930 935 940

Leu Phe Ser Ile Ile Ile Leu Met Phe Asp Asn Gln Ser Asp Lys Ile
945 950 955 960

Ile Leu Ile Leu Val Phe Ile Leu Gly Ile Leu Leu Pro Ile Tyr Lys
965 970 975

Ile Lys Tyr Lys Asn Ile Ile Leu Asp Ile Leu Ser Tyr Ile Phe Ile
980 985 990

Pro Ser Cys Ile Ser Met Ser Ile Ile Glu Tyr Leu Asn Thr His Lys
995 1000 1005

Leu Asn Tyr Ile Ile Ser Ile Ile Ile Gln Ile Leu Leu Tyr Leu
1010 1015 1020

Ile Leu Ile Ile Leu Ile Glu Arg Gly Leu Ile Asp Ile Ile Tyr
1025 1030 1035

Asn Lys Ile Ile Asn Leu Lys Tyr Asn Arg Lys Asn Asn Asn Tyr
1040 1045 1050

Phe Glu Leu Gln Asn Ile Asn Lys Tyr Thr Asp Tyr Asn Ser Ser
1055 1060 1065

Leu Ile Met Ser Asn Val Tyr Lys Ile Tyr Asn Asn Lys Leu Ala
 1070 1075 1080

Leu Asn Asn Ile Asn Phe Lys Ile Ser Glu Gly Lys Cys Phe Gly
 1085 1090 1095

Ile Ile Gly Gly Asn Gly Cys Gly Lys Ser Thr Ile Phe Lys Ile
 1100 1105 1110

Leu Ser Gly Glu Glu Cys Val Thr Lys Gly Asn Ile Tyr Ile Gly
 1115 1120 1125

Cys Ser Asn Arg Ser Trp Ile Leu Lys Ser Asn Tyr Phe Lys Lys
 1130 1135 1140

Ile Ser Tyr Cys Ser Gln Phe Phe Gly Ile Asp Thr Phe Leu Thr
 1145 1150 1155

Gly Arg Gln Asn Leu Lys Leu Ile Met Ile Leu Asn Gly Phe Ser
 1160 1165 1170

Asp Lys His Ile Gln Tyr Tyr Ile Asn Ile Trp Leu Lys Leu Leu
 1175 1180 1185

Asn Ile Glu Lys Tyr Ala Asp Lys Ala Val Tyr Thr Tyr Ser Thr
 1190 1195 1200

Gly Ile Ile Lys Arg Leu Lys Ile Ala Met Ser Leu Ala Pro Arg
 1205 1210 1215

Ser Ile Leu Thr Leu Met Asp Glu Pro Thr Ser Gly Ile Asp Ile
 1220 1225 1230

Val Ser Lys Gln Ile Ile Trp Lys Thr Ile Lys Tyr Ile Ile Asn
 1235 1240 1245

Tyr Asn Tyr Tyr Asn Tyr Tyr Lys His Ser Ile Leu Ile Ser Ser
 1250 1255 1260

Asn Asn Ile Glu Glu Ile Glu Tyr Leu Cys Ser Asn Val Ile Ile
 1265 1270 1275

Leu Asp Ser Gly Asn Ile Met Tyr Asn Asp Thr Leu Glu Asn Ile

1280		1285		1290
Lys Asn Ile His Ser Thr	Lys Ile Ile Asn Ile	Lys Leu Leu His		
1295	1300	1305		
Tyr Asp Asn Asn Lys Ile	Cys Lys Ile Lys Asn	Lys Leu Lys Asn		
1310	1315	1320		
Lys Gly Phe Met Leu Lys	Ser Asp Asn Lys Phe	Lys Leu Thr Phe		
1325	1330	1335		
Cys Val Ser Lys Asn Ile	Asn Leu Lys Tyr Ser	Glu Leu Phe Lys		
1340	1345	1350		
Ile Leu Tyr Ile Leu Lys	Asn Asn Tyr Ser Asp	Ile Ile Asp Gln		
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Tyr Asp Ile Ser Asp Thr	Asn Ile Glu Gln Leu	Phe Ser		
1370	1375	1380		

<210> 21

<211> 79

<212> PRT

<213> Amsacta moorei entomopoxvirus

<400> 21

Met Asn Tyr Tyr Ile Leu Leu Cys Leu Phe Met Leu Phe Ser Ser Ser
1 5 10 15
Tyr Asn Phe Lys Leu Ile Asn Asn Asn Ile Cys Asn Glu Asp Tyr Asp
20 25 30
Pro Gly Ile Cys Arg Ile Gly Asp Ile Arg Trp Tyr Tyr Asn Tyr Asn
35 40 45
Ile Lys Asp Cys Lys Ile Phe Ile Tyr Gly Gly Cys Gly Gly Asn Met
50 55 60
Asn Asn Phe Asn Asn Tyr Glu Asp Cys Ile Asn Lys Cys Leu Ile
65 70 75

<210> 22

<211> 572

<212> PRT

<213> Amsacta moorei entomopoxvirus

<400> 22

Met Asn Ile Tyr Leu Lys Asn Ala Ser Asn Asp Thr Ile Ser His Leu
 1 5 10 15

Ser Lys Phe Thr Asn Gln Ile Asn Asp Ile Ile Ser Phe Asp Ile Asn
 20 25 30

Asn Phe Thr Lys Asn Val Leu Ile Met Arg Asn Asn Ile Asn Asn Ile
 35 40 45

Arg Thr Asn Phe Glu Asn Val Ser Asp Asp Asn Ser Ile Lys Arg Arg
 50 55 60

Ile Thr Glu Phe Phe Asp Lys Gln Asn Thr Pro Asn Leu Lys Leu Gly
 65 70 75 80

Ser Ile Ile Ser Ile Ile Lys Phe Gln His Leu Thr Val Thr Tyr Val
 85 90 95

Asn Lys Ile Ile Lys Glu Ile Val Thr Tyr Lys Cys Asn Thr Arg Glu
 100 105 110

Ile Asn Ile Val Asn Phe Ser Ser Val Thr Ser Gln Ile Ser Asn Tyr
 115 120 125

Asp Asn Pro Ile Leu Asn Glu Ile Leu Lys Gln Tyr Val Tyr Lys Gln
 130 135 140

Lys Leu Lys Asn Val Thr Val Asn Asn Asp Lys Lys Lys Ile Ile Asp
 145 150 155 160

Pro Asp Asp Glu Lys Leu Ala Glu Ser Ile Lys Lys Ile Leu Glu Glu
 165 170 175

Ile Leu Lys Ile Leu Leu Ile Ile Lys Asn Asn Asp Cys Val Ala Tyr
 180 185 190

Gly Ser Phe Thr Cys Tyr Asn Ile Asn Arg Ser Ile Lys Tyr Asn Asp
 195 200 205

Ile Asp Leu Tyr Ser Thr Asp Ala Tyr Arg Ile Leu Ile Phe Phe Met
 210 215 220

Ile Tyr Ile His Leu Thr Ile Gly His Asp Thr Cys Leu Phe Ser Ile
 225 230 235 240

Pro Phe Ile Thr Gly His Ile Ser Leu Lys Tyr Lys Asn Ile Phe Ile
 245 250 255

Ile Asp Cys Ile Phe Leu Asp Asn Ser Ile Ile Asn Val Ile Asn Lys
 260 265 270

Ser Leu Ile Asn Asn Ile Tyr Phe Ile Asp Pro Gly Leu Gln Met Leu
 275 280 285

Asn Asn Phe Arg Met Leu Ser Glu Asn Phe Arg Ser Tyr Lys Ile Tyr
 290 295 300

Glu Lys Met Glu Glu Ser Leu Asn Lys Tyr Lys Thr Leu Leu Asn Tyr
 305 310 315 320

Phe Val Asn Asn Asn Asn Lys Phe Asn Lys Gln Arg Leu Asn Tyr Trp
 325 330 335

Leu Lys Ser Asp Val Cys Arg Asn Asn Phe Pro Tyr Thr Ile Val Asp
 340 345 350

Asn Thr Ile Leu Ile Ser Ile Lys Glu Leu Ile Asp Ile Ser Pro Tyr
 355 360 365

Asp Tyr Ile Met Ile Val Leu Asp Ser Pro Ser Asp Ile Met Glu Lys
 370 375 380

Leu Ser Asn Ile Ser Gly Leu Phe Ser Arg Lys Tyr Gly Ala Phe Leu
 385 390 395 400

Asn Glu Ile Phe Phe Glu Thr Lys Lys Ile Lys Asn Lys Ile Asn Thr
 405 410 415

Tyr Ala Gly Asn Thr Asn Asn Ile Thr Gln Leu Ile Asp Glu Asn Lys
 420 425 430

Leu Ile Lys Leu Asn Arg Ser Asp Ile Asn Met Pro Tyr Asn Ile Asn
 435 440 445

Pro Asn Lys Lys Tyr Leu Ile Phe Ser Asn Leu Thr Thr Ser Thr Tyr
 450 455 460

Val Tyr Phe Glu Asn Asp Lys Met Thr Asp Ile Ser Val Lys Asn Leu
 465 470 475 480

Ile Ser Phe Ile Ser Thr Ala Cys Leu Tyr Asn Leu Leu His Lys Lys
 485 490 495

Asp Asp Phe Gly Met Glu Leu Tyr Tyr Leu Thr Leu His Cys Leu Thr
 500 505 510

Phe Thr Glu Thr Arg Lys Leu Asn Glu Tyr Lys Val Ile Asp Arg Tyr
 515 520 525

Lys Ile Gly Glu His Lys Glu Ile Ser Leu Cys Lys Asn Leu Phe Asn
 530 535 540

Ser Ile Tyr Lys Asn Lys Ser Met Glu Asp Glu Tyr Met Asp Tyr Asn
 545 550 555 560

Thr Phe Ile Asp Leu Thr Asn Ile Asn Gly Gly Tyr
 565 570

<210> 23

<211> 50000

<212> DNA

<213> Amsacta moorei entomopoxvirus

<400> 23

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<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (432)

<223>

<400> 29

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cct att aga cag aca tca aaa tct gca gga atg gat tta aaa agt gca	96
Pro Ile Arg Gln Thr Ser Lys Ser Ala Gly Met Asp Leu Lys Ser Ala	
20 25 30	
tat gat tat att gtt tca gca cat gat aaa aaa tta ata aaa act gat	144
Tyr Asp Tyr Ile Val Ser Ala His Asp Lys Lys Leu Ile Lys Thr Asp	
35 40 45	
tta att ata gaa att cct aaa gga tgt tat gca aga tta gct ccc aga	192
Leu Ile Ile Glu Ile Pro Lys Gly Cys Tyr Ala Arg Leu Ala Pro Arg	
50 55 60	
tct gat tta gct cta aat aaa ttt att gat att gga gct gga gta att	240
Ser Asp Leu Ala Leu Asn Lys Phe Ile Asp Ile Gly Ala Gly Val Ile	
65 70 75 80	
gac gaa gat tat aga gga aat gtg gga gta ata tta ttt aat cat tct	288
Asp Glu Asp Tyr Arg Gly Asn Val Gly Val Ile Leu Phe Asn His Ser	
85 90 95	
aat gaa gat ttt ata ata aat aga gga gat aga ata tct caa tta ata	336
Asn Glu Asp Phe Ile Ile Asn Arg Gly Asp Arg Ile Ser Gln Leu Ile	
100 105 110	
tgt gaa aaa att tta tat cct aaa atg tta aaa gtc gat agt tta tca	384
Cys Glu Lys Ile Leu Tyr Pro Lys Met Leu Lys Val Asp Ser Leu Ser	
115 120 125	
gaa aca aaa aga tct gat ttt ggt ttt gga tct act ggt tat aat taa	432
Glu Thr Lys Arg Ser Asp Phe Gly Phe Gly Ser Thr Gly Tyr Asn	
130 135 140	

<210> 30

<211> 780

<212> DNA

<213> Amsacta moorei entomopoxvirus

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<221> exon

<222> (1) .. (780)

<223>

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Met	Phe	Lys	Thr	Asp	Leu	Thr	Asn	Glu	Glu	Val	Ser	Glu	Ala	Ala	Asn	
1				5				10						15		

aaa	tta	ata	aaa	aat	aat	act	tgt	aat	ttc	tat	gaa	tta	aaa	tta	gaa	96
Lys	Leu	Ile	Lys	Asn	Asn	Thr	Cys	Asn	Phe	Tyr	Glu	Leu	Lys	Leu	Glu	
			20					25					30			

aat	att	tta	gac	aat	att	gat	tta	aca	aat	aat	tgt	ata	tat	tgt	aat	144
Asn	Ile	Leu	Asp	Asn	Ile	Asp	Leu	Thr	Asn	Asn	Cys	Ile	Tyr	Cys	Asn	
		35					40					45				

gat	gta	att	aaa	gat	aaa	att	att	ata	gat	aca	aac	aat	ata	aaa	gtg	192
Asp	Val	Ile	Lys	Asp	Lys	Ile	Ile	Ile	Asp	Thr	Asn	Asn	Ile	Lys	Val	
	50					55					60					

gga	tat	ttt	tgt	aca	ata	aca	tgc	aaa	cac	ata	tat	tat	tca	ata	ata	240
Gly	Tyr	Phe	Cys	Thr	Ile	Thr	Cys	Lys	His	Ile	Tyr	Tyr	Ser	Ile	Ile	
65					70				75					80		

aga	aca	att	ttc	aat	tta	ccc	att	cat	aaa	att	att	aat	ttt	ata	cca	288
Arg	Thr	Ile	Phe	Asn	Leu	Pro	Ile	His	Lys	Ile	Ile	Asn	Phe	Ile	Pro	
				85					90					95		

ttt	ttt	tta	tta	tcc	gaa	gaa	tct	aaa	att	aaa	tat	aaa	aat	ata	aaa	336
Phe	Phe	Leu	Leu	Ser	Glu	Glu	Ser	Lys	Ile	Lys	Tyr	Lys	Asn	Ile	Lys	
			100					105					110			

aat	att	att	aat	tat	tat	aat	tat	gat	gat	ata	tct	att	ttt	agt	aaa	384
Asn	Ile	Ile	Asn	Tyr	Tyr	Asn	Tyr	Asp	Asp	Ile	Ser	Ile	Phe	Ser	Lys	
		115					120					125				

tat	aaa	gat	aat	aat	aat	ata	tat	act	gaa	ttt	aaa	tta	tta	att	aat	432
Tyr	Lys	Asp	Asn	Asn	Asn	Ile	Tyr	Thr	Glu	Phe	Lys	Leu	Leu	Ile	Asn	
	130					135					140					


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aat aaa ttt att tat ctc caa gaa tcg ttt gaa tat ata tca aaa agt      480
Asn Lys Phe Ile Tyr Leu Gln Glu Ser Phe Glu Tyr Ile Ser Lys Ser
145                      150                      155                      160

aat aat tgt ata tat tgt tat tct act aat ata aat gat aaa ata ata      528
Asn Asn Cys Ile Tyr Cys Tyr Ser Thr Asn Ile Asn Asp Lys Ile Ile
                      165                      170                      175

tta gag cat aat aat gga att att aaa ggt ttt tgt tct ata gtt tgt      576
Leu Glu His Asn Asn Gly Ile Ile Lys Gly Phe Cys Ser Ile Val Cys
                      180                      185                      190

aga gat tcg ata tct aaa caa ata tat aat aca att atg cct att tat      624
Arg Asp Ser Ile Ser Lys Gln Ile Tyr Asn Thr Ile Met Pro Ile Tyr
                      195                      200                      205

aaa ttt agt gca tat ttg gta cca ttt gaa tta ata aaa aat aaa aaa      672
Lys Phe Ser Ala Tyr Leu Val Pro Phe Glu Leu Ile Lys Asn Lys Lys
                      210                      215                      220

gaa ttt tta aat aat att aat cat ata aaa aat att gat aat tta tat      720
Glu Phe Leu Asn Asn Ile Asn His Ile Lys Asn Ile Asp Asn Leu Tyr
225                      230                      235                      240

ggt ggt tat tgt cat tta act aat aat aaa act aaa gta gaa tta ttt      768
Gly Gly Tyr Cys His Leu Thr Asn Asn Lys Thr Lys Val Glu Leu Phe
                      245                      250                      255

att aca aat taa
Ile Thr Asn
780

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<210> 31

<211> 1050

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(1050)

<223>

<400> 31

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atg gtt ttc gaa cat aag ata ttt tca tat aat ttt act gat att aaa      48
Met Val Phe Glu His Lys Ile Phe Ser Tyr Asn Phe Thr Asp Ile Lys

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1	5	10	15	
aaa aaa aaa ata tat cca ata tgc aat tgt att att aat att ttt gat				96
Lys Lys Lys Ile Tyr Pro Ile Cys Asn Cys Ile Ile Asn Ile Phe Asp				
20		25	30	
aaa gaa att aaa ata cca act tta act aaa gca ata ata gac acc aaa				144
Lys Glu Ile Lys Ile Pro Thr Leu Thr Lys Ala Ile Ile Asp Thr Lys				
35		40	45	
cat aat tta gga cct ata tat cta aat ata gct aat atg ctg gcg tat				192
His Asn Leu Gly Pro Ile Tyr Leu Asn Ile Ala Asn Met Leu Ala Tyr				
50		55	60	
gtt gat ata ata tat tta ttt aat aat aat tta gat gaa ata aat aat				240
Val Asp Ile Ile Tyr Leu Phe Asn Asn Asn Leu Asp Glu Ile Asn Asn				
65		70	75	80
tgt ggt ata tac tta ccg att att gac gat ggt agc aaa cat ttt tta				288
Cys Gly Ile Tyr Leu Pro Ile Ile Asp Asp Gly Ser Lys His Phe Leu				
85		90	95	
act tat aaa gat ata aaa tta ttt ata ttt gat gac gaa act ggt aaa				336
Thr Tyr Lys Asp Ile Lys Leu Phe Ile Phe Asp Asp Glu Thr Gly Lys				
100		105	110	
ata aaa att att gat aat cct aaa cat tct gat aaa cat cat ata ata				384
Ile Lys Ile Ile Asp Asn Pro Lys His Ser Asp Lys His His Ile Ile				
115		120	125	
aat tta tct aaa gaa cgt aaa aca gat gat gct ata ggt tca tca cac				432
Asn Leu Ser Lys Glu Arg Lys Thr Asp Asp Ala Ile Gly Ser Ser His				
130		135	140	
gtt tta tta ttt tca tgt aat tca aaa att gaa gaa aat atc aat ttg				480
Val Leu Leu Phe Ser Cys Asn Ser Lys Ile Glu Glu Asn Ile Asn Leu				
145		150	155	160
cat aaa aat att tta tta aca ttt aaa gat tat cct gtg aaa gtt gat				528
His Lys Asn Ile Leu Leu Thr Phe Lys Asp Tyr Pro Val Lys Val Asp				
165		170	175	
ata aaa aat gaa ata gaa aat tct aaa cat tat tat gaa aaa aat tta				576
Ile Lys Asn Glu Ile Glu Asn Ser Lys His Tyr Tyr Glu Lys Asn Leu				
180		185	190	
tta tat aaa aaa cca ttt tct atg tat agc aaa tat cat gaa gaa aaa				624
Leu Tyr Lys Lys Pro Phe Ser Met Tyr Ser Lys Tyr His Glu Glu Lys				
195		200	205	
gat att tat act ata gat ata aga tat aat cat tat gat gat att cct				672
Asp Ile Tyr Thr Ile Asp Ile Arg Tyr Asn His Tyr Asp Asp Ile Pro				
210		215	220	
aaa gaa aat ata aaa aaa ttc ttt att gat ata ttt aat aaa ata gca				720
Lys Glu Asn Ile Lys Lys Phe Phe Ile Asp Ile Phe Asn Lys Ile Ala				
225		230	235	240

gat ata ttt gaa aat att aaa att aaa aat aat gtt gat tat agt 768
 Asp Ile Phe Glu Asn Ile Lys Ile Lys Lys Asn Asn Val Asp Tyr Ser
 245 250 255

aat aaa ata agt tat tct aat ata tta gat cat aaa atg aat tat aaa 816
 Asn Lys Ile Ser Tyr Ser Asn Ile Leu Asp His Lys Met Asn Tyr Lys
 260 265 270

tat att aac gta gat gat att ata gaa aag aat aaa atg gat gca ttg 864
 Tyr Ile Asn Val Asp Asp Ile Ile Glu Lys Asn Lys Met Asp Ala Leu
 275 280 285

tgt tct ata aat gat ata cct gga ata aat gga aca tat tta aaa cca 912
 Cys Ser Ile Asn Asp Ile Pro Gly Ile Asn Gly Thr Tyr Leu Lys Pro
 290 295 300

tca gat gaa gag att aat gac gca gaa tat tca tta aat act att atg 960
 Ser Asp Glu Glu Ile Asn Asp Ala Glu Tyr Ser Leu Asn Thr Ile Met
 305 310 315 320

aga aat aca ata aaa gaa tta tta gaa tct ttt ata aat ttt att gat 1008
 Arg Asn Thr Ile Lys Glu Leu Leu Glu Ser Phe Ile Asn Phe Ile Asp
 325 330 335

gaa aca tac gaa gaa cgt tta aat agt aaa aat ata tat taa 1050
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 340 345

<210> 32

<211> 2469

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (2469)

<223>

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ata aaa aat acc aaa gat aag tta tct ata gat aat ttt ata ttc gaa 96
 Ile Lys Asn Thr Lys Asp Lys Leu Ser Ile Asp Asn Phe Ile Phe Glu

20	25	30	
cat aaa gat tta tat gat aat gta gtt att tat tca aaa tat tta tca			144
His Lys Asp Leu Tyr Asp Asn Val Val Ile Tyr Ser Lys Tyr Leu Ser			
35	40	45	
gat aaa gat ttt aaa ttt tta tac gtt att gta gaa aaa tat cca gac			192
Asp Lys Asp Phe Lys Phe Leu Tyr Val Ile Val Glu Lys Tyr Pro Asp			
50	55	60	
gca aat cca aat ata ata tat aat ata ttt aaa aca tca cag ata tct			240
Ala Asn Pro Asn Ile Ile Tyr Asn Ile Phe Lys Thr Ser Gln Ile Ser			
65	70	75	80
ata acg caa gat att aat ata aat aaa ata ata cag aat aaa gat aat			288
Ile Thr Gln Asp Ile Asn Ile Asn Lys Ile Ile Gln Asn Lys Asp Asn			
85	90	95	
aca aaa ata aac caa gat ata cac aca tat aat tat ttg tta tta tta			336
Thr Lys Ile Asn Gln Asp Ile His Thr Tyr Asn Tyr Leu Leu Leu Leu			
100	105	110	
aat aaa tta tat ata ttt caa cca ata cca aaa ttt ata aat ata tta			384
Asn Lys Leu Tyr Ile Phe Gln Pro Ile Pro Lys Phe Ile Asn Ile Leu			
115	120	125	
tgg gat ata aaa tca aaa aat gta gat aat cta gac aaa ata aat aat			432
Trp Asp Ile Lys Ser Lys Asn Val Asp Asn Leu Asp Lys Ile Asn Asn			
130	135	140	
ata aat aca aat tcg tta aat ata att aca aat ata gaa atg tca aaa			480
Ile Asn Thr Asn Ser Leu Asn Ile Ile Thr Asn Ile Glu Met Ser Lys			
145	150	155	160
gtt aat att att tat ata tca ttt aca tat att tca tct tat ata gaa			528
Val Asn Ile Ile Tyr Ile Ser Phe Thr Tyr Ile Ser Ser Tyr Ile Glu			
165	170	175	
tca cat aaa agt gaa ctt acg tta aat aaa aaa ttt tct att tat gat			576
Ser His Lys Ser Glu Leu Thr Leu Asn Lys Lys Phe Ser Ile Tyr Asp			
180	185	190	
aat tta aga aga ata att ggc gtt cct ata tct aat aat aac tat aaa			624
Asn Leu Arg Arg Ile Ile Gly Val Pro Ile Ser Asn Asn Asn Tyr Lys			
195	200	205	
tta aat tat tat att aaa gct aaa ata gat tca gaa aca tta ata tat			672
Leu Asn Tyr Tyr Ile Lys Ala Lys Ile Asp Ser Glu Thr Leu Ile Tyr			
210	215	220	
aat ata ttt aat tct gta gct ttt aaa aaa gta ata ata tat gga ttt			720
Asn Ile Phe Asn Ser Val Ala Phe Lys Lys Val Ile Ile Tyr Gly Phe			
225	230	235	240
gga gtt tat caa ata aaa gat gta aaa aat ata ata aaa gat acg att			768
Gly Val Tyr Gln Ile Lys Asp Val Lys Asn Ile Ile Lys Asp Thr Ile			
245	250	255	

aat gat gtt tcg tca tac ata gtt aat aat aat aaa gaa aaa ttg tat	816
Asn Asp Val Ser Ser Tyr Ile Val Asn Asn Asn Lys Glu Lys Leu Tyr	
260 265 270	
caa cgt aca tac tgt tgt tgt tat ttt tta aac tgt tat tat gaa aaa	864
Gln Arg Thr Tyr Cys Cys Cys Tyr Phe Leu Asn Cys Tyr Tyr Glu Lys	
275 280 285	
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Ile Phe Lys Asn Leu Ser Thr Gln Thr Tyr Asp Lys Ile Leu Tyr Ser	
290 295 300	
aat gta gtt aat att aat gat gtt att cat aaa aaa tat gaa tat ttc	960
Asn Val Val Asn Ile Asn Asp Val Ile His Lys Lys Tyr Glu Tyr Phe	
305 310 315 320	
gaa tgt caa cat gta caa gaa tat aaa aat gtt ttt aaa aat gta gaa	1008
Glu Cys Gln His Val Gln Glu Tyr Lys Asn Val Phe Lys Asn Val Glu	
325 330 335	
aat ttt tat att aat act aat aaa ttt cta gaa aat tat att aat att	1056
Asn Phe Tyr Ile Asn Thr Asn Lys Phe Leu Glu Asn Tyr Ile Asn Ile	
340 345 350	
gtt aat aaa gta gct ata tgt aaa att tgt gga gaa tcg tta gat atg	1104
Val Asn Lys Val Ala Ile Cys Lys Ile Cys Gly Glu Ser Leu Asp Met	
355 360 365	
ttt aat ttt gaa gaa gca aat tat att caa tct aaa ggc gaa att ata	1152
Phe Asn Phe Glu Glu Ala Asn Tyr Ile Gln Ser Lys Gly Glu Ile Ile	
370 375 380	
ata aca aca aat aaa gaa aat att ttc caa tat gaa act tat tca aga	1200
Ile Thr Thr Asn Lys Glu Asn Ile Phe Gln Tyr Glu Thr Tyr Ser Arg	
385 390 395 400	
tta gtt aat gct gaa tta ttt tta aca gat att ata gga att tat gat	1248
Leu Val Asn Ala Glu Leu Phe Leu Thr Asp Ile Ile Gly Ile Tyr Asp	
405 410 415	
gat att ttt aac aca aac aga atg gac gat ttt aat aat ata tct aga	1296
Asp Ile Phe Asn Thr Asn Arg Met Asp Asp Phe Asn Asn Ile Ser Arg	
420 425 430	
ata att att gat ttt ttt att gat att aac aca aat aga tta gaa tat	1344
Ile Ile Ile Asp Phe Phe Ile Asp Ile Asn Thr Asn Arg Leu Glu Tyr	
435 440 445	
caa gat aaa tat aaa aaa caa atc tct aac tcc aaa tta ttt ttt ata	1392
Gln Asp Lys Tyr Lys Lys Gln Ile Ser Asn Ser Lys Leu Phe Phe Ile	
450 455 460	
aga ttg tca aat aat tta ttt ata gca gtt tat aat gaa aaa gaa caa	1440
Arg Leu Ser Asn Asn Leu Phe Ile Ala Val Tyr Asn Glu Lys Glu Gln	
465 470 475 480	

tat gcc gaa gaa aga caa cta aac atg ttt ata ata ttc gga ata tct	1488
Tyr Ala Glu Glu Arg Gln Leu Asn Met Phe Ile Ile Phe Gly Ile Ser	
485 490 495	
tta tta tta tta agt aat ttt aat gaa tta ata ggt ata ata aaa aat	1536
Leu Leu Leu Leu Ser Asn Phe Asn Glu Leu Ile Gly Ile Ile Lys Asn	
500 505 510	
aat aaa aaa tta aaa act ata ttt gat aat caa aat gat att aaa ata	1584
Asn Lys Lys Leu Lys Thr Ile Phe Asp Asn Gln Asn Asp Ile Lys Ile	
515 520 525	
aat tta gat aat ttt ata aaa gat act gta ttc ata tat ata agt agg	1632
Asn Leu Asp Asn Phe Ile Lys Asp Thr Val Phe Ile Tyr Ile Ser Arg	
530 535 540	
aat aga tta ata gat aaa aaa agt aga gaa ttg att aat tat gat act	1680
Asn Arg Leu Ile Asp Lys Lys Ser Arg Glu Leu Ile Asn Tyr Asp Thr	
545 550 555 560	
ata att gat gtt tat tta aat ata tta act ccc gaa tta aaa tcg tgt	1728
Ile Ile Asp Val Tyr Leu Asn Ile Leu Thr Pro Glu Leu Lys Ser Cys	
565 570 575	
tat aat ata ata tta aat aga tta tat aaa aat ata gat att tta aaa	1776
Tyr Asn Ile Ile Leu Asn Arg Leu Tyr Lys Asn Ile Asp Ile Leu Lys	
580 585 590	
tat gat tat ata gaa tta cca gat att cca tta cta ccc gta aca tta	1824
Tyr Asp Tyr Ile Glu Leu Pro Asp Ile Pro Leu Leu Pro Val Thr Leu	
595 600 605	
gga tat aaa cac aaa aat att gat act ggt cct aca ata tct ttt tta	1872
Gly Tyr Lys His Lys Asn Ile Asp Thr Gly Pro Thr Ile Ser Phe Leu	
610 615 620	
cca ctc gaa gat gta att aat tat aat aat gta aat att tat gaa agt	1920
Pro Leu Glu Asp Val Ile Asn Tyr Asn Asn Val Asn Ile Tyr Glu Ser	
625 630 635 640	
aat att aga tat att aca tac gat acg tta aaa att aaa aat tta tct	1968
Asn Ile Arg Tyr Ile Thr Tyr Asp Thr Leu Lys Ile Lys Asn Leu Ser	
645 650 655	
gat ttt gat att aaa gat ata aat gtt gaa tta aaa act ata att gaa	2016
Asp Phe Asp Ile Lys Asp Ile Asn Val Glu Leu Lys Thr Ile Ile Glu	
660 665 670	
aga ttt aat tct gaa tat tac tat aga aat att agt ata tta aac ttt	2064
Arg Phe Asn Ser Glu Tyr Tyr Tyr Arg Asn Ile Ser Ile Leu Asn Phe	
675 680 685	
gaa cag atg gat aat tat aat ttt tat ata gat ata gga caa aaa tat	2112
Glu Gln Met Asp Asn Tyr Asn Phe Tyr Ile Asp Ile Gly Gln Lys Tyr	
690 695 700	
ttt ttt tat ata aat gat gta tta tcg aat agt aat att gta ata aaa	2160

Phe Phe Tyr Ile Asn Asp Val Leu Ser Asn Ser Asn Ile Val Ile Lys
 705 710 715 720
 agt aat att tat tct aaa ata atg aat ttt ggt gat tct ttg cca ttt 2208
 Ser Asn Ile Tyr Ser Lys Ile Met Asn Phe Gly Asp Ser Leu Pro Phe
 725 730 735
 tta aat aaa ata tat aaa ttt cat tat aca tta tta ttt gat aat ctg 2256
 Leu Asn Lys Ile Tyr Lys Phe His Tyr Thr Leu Leu Phe Asp Asn Leu
 740 745 750
 aat tta tta ata aat ttt tta tat ccg aat gtt aaa att ata ttt aat 2304
 Asn Leu Leu Ile Asn Phe Leu Tyr Pro Asn Val Lys Ile Ile Phe Asn
 755 760 765
 tat gat caa gat tat ata act aga gat tat ttt cat tat att gtt tat 2352
 Tyr Asp Gln Asp Tyr Ile Thr Arg Asp Tyr Phe His Tyr Ile Val Tyr
 770 775 780
 aat ata tta att tca tta att aat act aat ata tta tca tgg ata gat 2400
 Asn Ile Leu Ile Ser Leu Ile Asn Thr Asn Ile Leu Ser Trp Ile Asp
 785 790 795 800
 gta aac aaa gat ata ata tct aaa tta tat gat aat act tta aga ttt 2448
 Val Asn Lys Asp Ile Ile Ser Lys Leu Tyr Asp Asn Thr Leu Arg Phe
 805 810 815
 tat gtt aaa aat ata tat taa 2469
 Tyr Val Lys Asn Ile Tyr
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<210> 33

<211> 1410

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

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<222> (1) .. (1410)

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Ser Arg Leu Lys Ser Gln Glu Ile Leu Ile Tyr Asp Lys Asn Ser Asn	
20 25 30	
cat gct ata att aca aat gat atg ata gaa aat att gat tta gat ata	144
His Ala Ile Ile Thr Asn Asp Met Ile Glu Asn Ile Asp Leu Asp Ile	
35 40 45	
ata tgt ccg ttg att ttg tat aac gaa aat gat aaa att att gac aaa	192
Ile Cys Pro Leu Ile Leu Tyr Asn Glu Asn Asp Lys Ile Ile Asp Lys	
50 55 60	
att aat aat atg gat aaa ttt att gag tgt aaa tat caa tta agg gaa	240
Ile Asn Asn Met Asp Lys Phe Ile Glu Cys Lys Tyr Gln Leu Arg Glu	
65 70 75 80	
gat caa tta gag tta att aat aat ata atg aat att aat aat aat tat	288
Asp Gln Leu Glu Leu Ile Asn Asn Ile Met Asn Ile Asn Asn Asn Tyr	
85 90 95	
tct tgt aat tca ccc ata tat tta tca tta gta tgt cct tgt gga tat	336
Ser Cys Asn Ser Pro Ile Tyr Leu Ser Leu Val Cys Pro Cys Gly Tyr	
100 105 110	
ggg aaa act ata ttg ggt ata gat ata ata tct aga tta aaa tac aaa	384
Gly Lys Thr Ile Leu Gly Ile Asp Ile Ile Ser Arg Leu Lys Tyr Lys	
115 120 125	
tgt gct ata att gta cct aga att ttt att ata tat caa tgg tta gat	432
Cys Ala Ile Ile Val Pro Arg Ile Phe Ile Ile Tyr Gln Trp Leu Asp	
130 135 140	
aaa ata aaa caa aaa aat aat ata ttt gca tct acg tgt ggt aga aaa	480
Lys Ile Lys Gln Lys Asn Asn Ile Phe Ala Ser Thr Cys Gly Arg Lys	
145 150 155 160	
aaa gcg att gaa caa ata aaa aat ggt tta gag tgt gat gtg ttt ata	528
Lys Ala Ile Glu Gln Ile Lys Asn Gly Leu Glu Cys Asp Val Phe Ile	
165 170 175	
tgt cct gat aaa cat tta gaa aat gat att att aga aat tat ata tat	576
Cys Pro Asp Lys His Leu Glu Asn Asp Ile Ile Arg Asn Tyr Ile Tyr	
180 185 190	
aat acg tgt agt tta gta att gtt gat gaa gct cat cga tat aat gct	624
Asn Thr Cys Ser Leu Val Ile Val Asp Glu Ala His Arg Tyr Asn Ala	
195 200 205	
aat aaa aat ata gta atg act aga ttt tta tat aat aaa ata ttt aaa	672
Asn Lys Asn Ile Val Met Thr Arg Phe Leu Tyr Asn Lys Ile Phe Lys	
210 215 220	
ttt tgt ttg ttt tta act gct acg cca tct aat aat atg aat act ttt	720
Phe Cys Leu Phe Leu Thr Ala Thr Pro Ser Asn Asn Met Asn Thr Phe	
225 230 235 240	
ata aat gaa ttt att gat att aat aat caa tca cag att aaa ata tta	768

Ile Asn Glu Phe	Ile Asp Ile Asn Asn Gln Ser Gln Ile Lys Ile Leu	
245	250	255
aat gat att aaa aaa aaa tta att ata ttt aat ttg aaa gat aaa ata		816
Asn Asp Ile Lys Lys Lys Leu Ile Ile Phe Asn Leu Lys Asp Lys Ile		
260	265	270
ttt act cca att aat aat aat tgt aaa tat tat gtt aat aaa ata aca		864
Phe Thr Pro Ile Asn Asn Asn Cys Lys Tyr Tyr Val Asn Lys Ile Thr		
275	280	285
aat aat aaa ttc aat aat ata tat ata aaa aat ttt aat tac aaa tat		912
Asn Asn Lys Phe Asn Asn Ile Tyr Ile Lys Asn Phe Asn Tyr Lys Tyr		
290	295	300
tgt att tct ctt gat gat aaa aga aat gaa att att ata gat tta ata		960
Cys Ile Ser Leu Asp Asp Lys Arg Asn Glu Ile Ile Ile Asp Leu Ile		
305	310	315
tta aaa aca act acg gat aat aca aaa tgt tta att ttg aca gat tat		1008
Leu Lys Thr Thr Thr Asp Asn Thr Lys Cys Leu Ile Leu Thr Asp Tyr		
325	330	335
aga tta cac atg atg aat ata tat aat tta tta aaa aaa aca cac tta		1056
Arg Leu His Met Met Asn Ile Tyr Asn Leu Leu Lys Lys Thr His Leu		
340	345	350
caa aat ata att tat ata tat gat gta aaa aat aaa aaa tgt aat gat		1104
Gln Asn Ile Ile Tyr Ile Tyr Asp Val Lys Asn Lys Lys Cys Asn Asp		
355	360	365
ttg tta aca gaa att aaa aat aag aat gaa aaa ttt att att ata tca		1152
Leu Leu Thr Glu Ile Lys Asn Lys Asn Glu Lys Phe Ile Ile Ile Ser		
370	375	380
act ata tct gct tgt tct gaa tca tta gat att aat aat tta aat act		1200
Thr Ile Ser Ala Cys Ser Glu Ser Leu Asp Ile Asn Asn Leu Asn Thr		
385	390	395
ttt cat gtt tta tta cct att act aat tct aaa aca ata aaa caa tgc		1248
Phe His Val Leu Leu Pro Ile Thr Asn Ser Lys Thr Ile Lys Gln Cys		
405	410	415
ata ggt aga att atg aga aat atg aac gaa gat aaa tat act tat ata		1296
Ile Gly Arg Ile Met Arg Asn Met Asn Glu Asp Lys Tyr Thr Tyr Ile		
420	425	430
tat aat ttt tct aac atc aat aac atg att aat atg tat att aat gat		1344
Tyr Asn Phe Ser Asn Ile Asn Asn Met Ile Asn Met Tyr Ile Asn Asp		
435	440	445
aaa act gat tta ata aga aaa gta ttg tct gat tgg gaa tgt gta gaa		1392
Lys Thr Asp Leu Ile Arg Lys Val Leu Ser Asp Trp Glu Cys Val Glu		
450	455	460
ata aaa tgt tca tat taa		1410
Ile Lys Cys Ser Tyr		

465

<210> 34

<211> 768

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (768)

<223>

<400> 34

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Met	Tyr	Cys	Asn	Pro	Ile	Ala	Phe	Ile	Ser	Asp	Phe	Asp	Asn	Ser	Tyr	
1			5				10				15					

gct	ggt	aga	gtt	aga	tac	ata	gat	aat	ttt	ata	gct	gga	gct	aca	aat	96
Ala	Gly	Arg	Val	Arg	Tyr	Ile	Asp	Asn	Phe	Ile	Ala	Gly	Ala	Thr	Asn	
		20					25				30					

att	cca	gat	aat	aaa	act	att	ttt	aaa	ata	att	gga	gga	aaa	ggt	gtt	144
Ile	Pro	Asp	Asn	Lys	Thr	Ile	Phe	Lys	Ile	Ile	Gly	Gly	Lys	Gly	Val	
		35					40				45					

ttt	tta	aaa	act	aat	agt	caa	tat	aac	act	ata	cca	tat	aca	tca	cct	192
Phe	Leu	Lys	Thr	Asn	Ser	Gln	Tyr	Asn	Thr	Ile	Pro	Tyr	Thr	Ser	Pro	
	50					55				60						

act	aaa	aaa	aaa	aat	aat	tac	tta	gtc	tat	aat	ata	tat	gat	ttg	cga	240
Thr	Lys	Lys	Lys	Asn	Asn	Tyr	Leu	Val	Tyr	Asn	Ile	Tyr	Asp	Leu	Arg	
65				70					75					80		

gat	tat	att	agt	gaa	aat	tca	aaa	ttc	tcg	ata	aat	gat	ttt	atg	aat	288
Asp	Tyr	Ile	Ser	Glu	Asn	Ser	Lys	Phe	Ser	Ile	Asn	Asp	Phe	Met	Asn	
			85					90					95			

aat	att	aat	aat	tcg	tca	caa	aat	aat	aga	att	atg	gtt	ctg	agt	ggt	336
Asn	Ile	Asn	Asn	Ser	Ser	Gln	Asn	Asn	Arg	Ile	Met	Val	Leu	Ser	Gly	
		100					105					110				

gat	aca	aaa	tat	aaa	ata	aga	aat	cct	aat	aga	tta	ata	ttt	tct	gat	384
Asp	Thr	Lys	Tyr	Lys	Ile	Arg	Asn	Pro	Asn	Arg	Leu	Ile	Phe	Ser	Asp	
		115					120					125				

aca	tct	tat	cct	att	tta	gtt	act	tat	aat	tta	aat	gat	aaa	att	aat	432
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Thr	Ser	Tyr	Pro	Ile	Leu	Val	Thr	Tyr	Asn	Leu	Asn	Asp	Lys	Ile	Asn	
130						135					140					
ata	tct	atc	gaa	aac	cca	aat	gaa	aaa	gta	gaa	aaa	tat	gaa	ata	ccc	480
Ile	Ser	Ile	Glu	Asn	Pro	Asn	Glu	Lys	Val	Glu	Lys	Tyr	Glu	Ile	Pro	
145					150					155					160	
gaa	gat	gtt	tgc	tat	gtc	tat	aaa	caa	aaa	gat	aca	tat	gta	atg	tcg	528
Glu	Asp	Val	Cys	Tyr	Val	Tyr	Lys	Gln	Lys	Asp	Thr	Tyr	Val	Met	Ser	
				165					170					175		
gtt	aat	gtt	aaa	cgt	ttg	acg	cca	gta	gat	ata	tat	tat	att	act	acc	576
Val	Asn	Val	Lys	Arg	Leu	Thr	Pro	Val	Asp	Ile	Tyr	Tyr	Ile	Thr	Thr	
			180					185					190			
gaa	gtt	gat	caa	aat	aat	tca	aat	aat	ata	aaa	tct	ata	aaa	ata	gaa	624
Glu	Val	Asp	Gln	Asn	Asn	Ser	Asn	Asn	Ile	Lys	Ser	Ile	Lys	Ile	Glu	
		195					200					205				
gat	aca	tca	gaa	cct	tta	gaa	ata	cac	cca	tct	tat	aga	aaa	ata	tta	672
Asp	Thr	Ser	Glu	Pro	Leu	Glu	Ile	His	Pro	Ser	Tyr	Arg	Lys	Ile	Leu	
	210					215					220					
gta	aca	aaa	tta	gtg	gat	ttt	att	aat	caa	aat	ata	aaa	cca	act	aat	720
Val	Thr	Lys	Leu	Val	Asp	Phe	Ile	Asn	Gln	Asn	Ile	Lys	Pro	Thr	Asn	
225					230					235					240	
ttt	aat	ttt	tca	gaa	tat	ttt	gat	aag	tat	ata	aat	act	act	aaa	taa	768
Phe	Asn	Phe	Ser	Glu	Tyr	Phe	Asp	Lys	Tyr	Ile	Asn	Thr	Thr	Lys		
				245					250					255		

<210> 35

<211> 3591

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (3591)

<223>

<400> 35

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Met	Asn	Asn	Asn	Pro	Ile	Glu	Glu	Asp	Ile	Ala	Asn	Leu	Phe	Leu	Gln	
1				5				10						15		

tgc gat cct aga ttg gat ata aaa tct aaa gtt ttg att aat gta gaa	96
Cys Asp Pro Arg Leu Asp Ile Lys Ser Lys Val Leu Ile Asn Val Glu	
20 25 30	
tta cca ttt aaa aat tta aat tat gat ttg cct acg tta ttt aat aga	144
Leu Pro Phe Lys Asn Leu Asn Tyr Asp Leu Pro Thr Leu Phe Asn Arg	
35 40 45	
gaa gaa gtt ata tat aca aag ata agt aaa tca gga cat gaa gat gtc	192
Glu Glu Val Ile Tyr Thr Lys Ile Ser Lys Ser Gly His Glu Asp Val	
50 55 60	
ata atg aaa ata aca tac gaa ggt aaa gaa gat aat aaa aaa agt tat	240
Ile Met Lys Ile Thr Tyr Glu Gly Lys Glu Asp Asn Lys Lys Ser Tyr	
65 70 75 80	
tta tat tcc agt tta gat aat aaa gga ttt tat aca tat atc tct att	288
Leu Tyr Ser Ser Leu Asp Asn Lys Gly Phe Tyr Thr Tyr Ile Ser Ile	
85 90 95	
tct att tct ata tat aga aaa ata aca tca tta aat aat aaa ata gaa	336
Ser Ile Ser Ile Tyr Arg Lys Ile Thr Ser Leu Asn Asn Lys Ile Glu	
100 105 110	
tat aaa ata ata tct aat aaa aca tat tcg cat aca gaa ata aga ata	384
Tyr Lys Ile Ile Ser Asn Lys Thr Tyr Ser His Thr Glu Ile Arg Ile	
115 120 125	
cct cag tat ata gct cac ggt gga aat aca tca gaa aat gat aat tct	432
Pro Gln Tyr Ile Ala His Gly Gly Asn Thr Ser Glu Asn Asp Asn Ser	
130 135 140	
ata aca caa tca aat aat cct ggt gga ttt ttt aat gtt tca aaa agt	480
Ile Thr Gln Ser Asn Asn Pro Gly Gly Phe Phe Asn Val Ser Lys Ser	
145 150 155 160	
tta aaa aaa atg gta act act aga ata gaa caa aca tat att tat cca	528
Leu Lys Lys Met Val Thr Thr Arg Ile Glu Gln Thr Tyr Ile Tyr Pro	
165 170 175	
aaa cgt aaa aaa act caa aaa gca tat act tat cat ctg gca ttc att	576
Lys Arg Lys Lys Thr Gln Lys Ala Tyr Thr Tyr His Leu Ala Phe Ile	
180 185 190	
agt aaa aaa cca tca ttt atg atg ata aat gaa aaa tta aac ccg cca	624
Ser Lys Lys Pro Ser Phe Met Met Ile Asn Glu Lys Leu Asn Pro Pro	
195 200 205	
cag ttt tta act tta gat ata gat ttt aat cca gat aaa ata aaa tgt	672
Gln Phe Leu Thr Leu Asp Ile Asp Phe Asn Pro Asp Lys Ile Lys Cys	
210 215 220	
gta ata gat tct aaa aaa aca ttc tta caa att gat atc ata gca tta	720
Val Ile Asp Ser Lys Lys Thr Phe Leu Gln Ile Asp Ile Ile Ala Leu	
225 230 235 240	
ata ata gca tta tct aat gat aac att gat gtt gtt tat aaa aaa ata	768

Ile Ile Ala Leu Ser Asn Asp Asn Ile Asp Val Val Tyr Lys Lys Ile	
245 250 255	
agt tct ggt ttt agt gat gat ata tct gat tca atc aaa ata tta ata	816
Ser Ser Gly Phe Ser Asp Asp Ile Ser Asp Ser Ile Lys Ile Leu Ile	
260 265 270	
gaa aat act aaa aat att tta tct gaa tat aat aat gat gcc aga caa	864
Glu Asn Thr Lys Asn Ile Leu Ser Glu Tyr Asn Asn Asp Ala Arg Gln	
275 280 285	
tat gtc gac aaa ata atc gaa att aat tat att aaa aaa tat cca aaa	912
Tyr Val Asp Lys Ile Ile Glu Ile Asn Tyr Ile Lys Lys Tyr Pro Lys	
290 295 300	
aat gaa ata act tta caa gat tat ttt aat aat att ttc aat gat ttt	960
Asn Glu Ile Thr Leu Gln Asp Tyr Phe Asn Asn Ile Phe Asn Asp Phe	
305 310 315 320	
ctt cct cat ata ggc cga gga aaa tat aat gaa aaa tgt atg tat atg	1008
Leu Pro His Ile Gly Arg Gly Lys Tyr Asn Glu Lys Cys Met Tyr Met	
325 330 335	
att agt att tta aga caa tct ttt gtt tct ata ttt caa tca gat gtt	1056
Ile Ser Ile Leu Arg Gln Ser Phe Val Ser Ile Phe Gln Ser Asp Val	
340 345 350	
tat cca gat aaa gat aat tta gct act aga aga att tca act gct gct	1104
Tyr Pro Asp Lys Asp Asn Leu Ala Thr Arg Arg Ile Ser Thr Ala Ala	
355 360 365	
gat att ttt gag aat ata ata agg act tct att gat aat tct ttc gaa	1152
Asp Ile Phe Glu Asn Ile Ile Arg Thr Ser Ile Asp Asn Ser Phe Glu	
370 375 380	
tta gca aga gat aaa tat aaa aca tat att agt gga tct ggt aag aac	1200
Leu Ala Arg Asp Lys Tyr Lys Thr Tyr Ile Ser Gly Ser Gly Lys Asn	
385 390 395 400	
aat aat ata aat aat att tta tct caa gtt aaa tta tta cca caa ata	1248
Asn Asn Ile Asn Asn Ile Leu Ser Gln Val Lys Leu Leu Pro Gln Ile	
405 410 415	
aca caa gcg ttt aat aat ttt ttc aat atg caa gat act aaa aat agt	1296
Thr Gln Ala Phe Asn Asn Phe Phe Asn Met Gln Asp Thr Lys Asn Ser	
420 425 430	
gat gtt gta aaa ata gga acc cac tca aat tgg gct gaa tct att tat	1344
Asp Val Val Lys Ile Gly Thr His Ser Asn Trp Ala Glu Ser Ile Tyr	
435 440 445	
att tct aat gct gta gaa aga ggt gtt agt ata gaa tta aca aaa tca	1392
Ile Ser Asn Ala Val Glu Arg Gly Val Ser Ile Glu Leu Thr Lys Ser	
450 455 460	
cta act caa aga aaa tta cac gca tca tca att aat gta tta gat atg	1440
Leu Thr Gln Arg Lys Leu His Ala Ser Ser Ile Asn Val Leu Asp Met	

465	470	475	480	
atg gat aca cct gat cat ggt aca aaa act ggt ctt gta aaa aga tta				1488
Met Asp Thr Pro Asp His Gly Thr Lys Thr Gly Leu Val Lys Arg Leu	485	490	495	
tgt ata agt aca tta ata tca cac tat cct ata cat att aga aaa caa				1536
Cys Ile Ser Thr Leu Ile Ser His Tyr Pro Ile His Ile Arg Lys Gln	500	505	510	
tta ttt gaa gaa gtt aga gaa ttt ata gaa aac aag gtt aaa cat aca				1584
Leu Phe Glu Glu Val Arg Glu Phe Ile Glu Asn Lys Val Lys His Thr	515	520	525	
tta aaa gaa gat att att tcc ggt gta ttt ata tca att ata gat gaa				1632
Leu Lys Glu Asp Ile Ile Ser Gly Val Phe Ile Ser Ile Ile Asp Glu	530	535	540	
tct gaa cac gta ata gct cgt ata aaa aat tca gaa act gaa tct ttt				1680
Ser Glu His Val Ile Ala Arg Ile Lys Asn Ser Glu Thr Glu Ser Phe	545	550	555	560
ata aaa gat tta aaa tat gca aaa ata tca gga tta ttt gtt aaa aat				1728
Ile Lys Asp Leu Lys Tyr Ala Lys Ile Ser Gly Leu Phe Val Lys Asn	565	570	575	
gat ata ggt ata gaa ata tta aaa ttt cat gaa tta gat aat aac aaa				1776
Asp Ile Gly Ile Glu Ile Leu Lys Phe His Glu Leu Asp Asn Asn Lys	580	585	590	
caa ata tat gta cca aca gat aga tat ttt caa ata aga ata aat gtt				1824
Gln Ile Tyr Val Pro Thr Asp Arg Tyr Phe Gln Ile Arg Ile Asn Val	595	600	605	
ggt aat aaa aga gca aca caa cca gta ttt aga gta gaa aat ggc gaa				1872
Gly Asn Lys Arg Ala Thr Gln Pro Val Phe Arg Val Glu Asn Gly Glu	610	615	620	
tta gca ttt aat aaa tat cct aat tta cat gct gaa tta aaa gag agt				1920
Leu Ala Phe Asn Lys Tyr Pro Asn Leu His Ala Glu Leu Lys Glu Ser	625	630	635	640
aat tct tac act gat ttt gta act aaa tat tat gat att ata gaa gtt				1968
Asn Ser Tyr Thr Asp Phe Val Thr Lys Tyr Tyr Asp Ile Ile Glu Val	645	650	655	
att gac gta gga caa atg ata tat tca aat atg tgt aac aca gtt aca				2016
Ile Asp Val Gly Gln Met Ile Tyr Ser Asn Met Cys Asn Thr Val Thr	660	665	670	
gaa ttt aat agt tac agt tta gaa caa aga aaa aaa tat gat tat gtt				2064
Glu Phe Asn Ser Tyr Ser Leu Glu Gln Arg Lys Lys Tyr Asp Tyr Val	675	680	685	
aga tta cca aat tat tta tat ttt agt tat tta aca tcg act ggt tgt				2112
Arg Leu Pro Asn Tyr Leu Tyr Phe Ser Tyr Leu Thr Ser Thr Gly Cys	690	695	700	

atg tat gat att ggt aaa atg acg ggt gtt aga ggt aca ttt gga aca	2160
Met Tyr Asp Ile Gly Lys Met Thr Gly Val Arg Gly Thr Phe Gly Thr	
705 710 715 720	
gcc caa agt aaa cat att ata aca gga cct cca gat aat gta atg aat	2208
Ala Gln Ser Lys His Ile Ile Thr Gly Pro Pro Asp Asn Val Met Asn	
725 730 735	
aaa tat gat aca tgt aac tat tta gca tat cct ata gaa aga cca tca	2256
Lys Tyr Asp Thr Cys Asn Tyr Leu Ala Tyr Pro Ile Glu Arg Pro Ser	
740 745 750	
ata act aat att cct atg gaa ata tct ggt ata gca aga aat agt ata	2304
Ile Thr Asn Ile Pro Met Glu Ile Ser Gly Ile Ala Arg Asn Ser Ile	
755 760 765	
ggg aca cat gtt tta gtg gga ttc ttt agt ttt aat tac aac gta gaa	2352
Gly Thr His Val Leu Val Gly Phe Phe Ser Phe Asn Tyr Asn Val Glu	
770 775 780	
gat ggc gtt att gta aat aaa gaa tcg ata aat aga gga tta tta tct	2400
Asp Gly Val Ile Val Asn Lys Glu Ser Ile Asn Arg Gly Leu Leu Ser	
785 790 795 800	
gta ata tca tta atg tct gta aaa aat gaa tta tct gat aca caa ata	2448
Val Ile Ser Leu Met Ser Val Lys Asn Glu Leu Ser Asp Thr Gln Ile	
805 810 815	
aac aat aat aat cca agt gca gaa aat tct aat aat aat tat tct aaa	2496
Asn Asn Asn Asn Pro Ser Ala Glu Asn Ser Asn Asn Asn Tyr Ser Lys	
820 825 830	
ata tca gca aca ggt ttg cca tca ata gga act gtt tta gta caa ggt	2544
Ile Ser Ala Thr Gly Leu Pro Ser Ile Gly Thr Val Leu Val Gln Gly	
835 840 845	
gat gcg tta tac aga tgt tta aaa cca aaa ttt aaa aat gat gat gat	2592
Asp Ala Leu Tyr Arg Cys Leu Lys Pro Lys Phe Lys Asn Asp Asp Asp	
850 855 860	
aat aga tat ata ttt gat caa tct gaa aca cta tct aat act tat cca	2640
Asn Arg Tyr Ile Phe Asp Gln Ser Glu Thr Leu Ser Asn Thr Tyr Pro	
865 870 875 880	
gcc gtg gta gaa aga aca aga aaa caa ggt aca gat tta ata aag att	2688
Ala Val Val Glu Arg Thr Arg Lys Gln Gly Thr Asp Leu Ile Lys Ile	
885 890 895	
gat atg cta ttg tca tca tat aga aga ttg agt gta gga gat aaa ata	2736
Asp Met Leu Leu Ser Ser Tyr Arg Arg Leu Ser Val Gly Asp Lys Ile	
900 905 910	
gca aaa tct gta caa aaa gtt act gtt tca aaa att atg gaa gaa gaa	2784
Ala Lys Ser Val Gln Lys Val Thr Val Ser Lys Ile Met Glu Glu Glu	
915 920 925	

gat atg cct tat aat gaa aat ggc gaa aga cct gat ata ata ttt aat	2832
Asp Met Pro Tyr Asn Glu Asn Gly Glu Arg Pro Asp Ile Ile Phe Asn	
930 935 940	
agt cct agt att ata agt aga aaa act ctt cct ttg tat gac gaa gtt	2880
Ser Pro Ser Ile Ile Ser Arg Lys Thr Leu Pro Leu Tyr Asp Glu Val	
945 950 955 960	
tct tta tgt aat atg ttc tca aaa ata cca tat aat gat aaa tgt gat	2928
Ser Leu Cys Asn Met Phe Ser Lys Ile Pro Tyr Asn Asp Lys Cys Asp	
965 970 975	
gta gaa tat att aat tat cct ata tat act gat aaa agt cct ttg gat	2976
Val Glu Tyr Ile Asn Tyr Pro Ile Tyr Thr Asp Lys Ser Pro Leu Asp	
980 985 990	
aaa tat aat ttt atc aaa aaa gaa tta aaa aaa ata tat aat aat gta	3024
Lys Tyr Asn Phe Ile Lys Lys Glu Leu Lys Lys Ile Tyr Asn Asn Val	
995 1000 1005	
act gac gaa gaa tta gaa aat att ata tat tgt cga caa aca tta	3069
Thr Asp Glu Glu Leu Glu Asn Ile Ile Tyr Cys Arg Gln Thr Leu	
1010 1015 1020	
tat cac cca tat aca aaa aaa cct atg act ata aaa gaa ggt gat	3114
Tyr His Pro Tyr Thr Lys Lys Pro Met Thr Ile Lys Glu Gly Asp	
1025 1030 1035	
aaa gaa act aaa tca ttt atg gga cct atg tta ttc tgt aga tta	3159
Lys Glu Thr Lys Ser Phe Met Gly Pro Met Leu Phe Cys Arg Leu	
1040 1045 1050	
tca caa atg tcg gca gat aaa ata tca gta aga aat aga ggc aga	3204
Ser Gln Met Ser Ala Asp Lys Ile Ser Val Arg Asn Arg Gly Arg	
1055 1060 1065	
tta gat aaa tac atg cag gct ccg tct ggg aaa aaa aaa ggc gga	3249
Leu Asp Lys Tyr Met Gln Ala Pro Ser Gly Lys Lys Lys Gly Gly	
1070 1075 1080	
ggg att aaa atc gga gaa atg gaa agt gat gtt ttt gct aca aat	3294
Gly Ile Lys Ile Gly Glu Met Glu Ser Asp Val Phe Ala Thr Asn	
1085 1090 1095	
gga tct gta tat gca ata cat gaa tta caa tca gat cct gat gaa	3339
Gly Ser Val Tyr Ala Ile His Glu Leu Gln Ser Asp Pro Asp Glu	
1100 1105 1110	
ttt tat tta cca gct cat ata tgt gga aat tgt gga ata ttt gct	3384
Phe Tyr Leu Pro Ala His Ile Cys Gly Asn Cys Gly Ile Phe Ala	
1115 1120 1125	
act tat gaa gaa aat ata gaa gta aaa aga tgg aaa tgt cta cag	3429
Thr Tyr Glu Glu Asn Ile Glu Val Lys Arg Trp Lys Cys Leu Gln	
1130 1135 1140	
tgt gaa aat ctt ggt ttg tca cca gaa ata ata aaa atg cgt tta	3474

Cys Glu	Asn Leu Gly Leu Ser	Pro Glu Ile Ile Lys	Met Arg Leu	
1145	1150	1155		
act tat	gct aca aaa ata ttt	atc aca ctt tta aat	gct aga ggt	3519
Thr Tyr	Ala Thr Lys Ile Phe	Ile Thr Leu Leu Asn	Ala Arg Gly	
1160	1165	1170		
ata tct	cta atc cct gta aaa	gat aat cag tct ata	cgt tat att	3564
Ile Ser	Leu Ile Pro Val Lys	Asp Asn Gln Ser Ile	Arg Tyr Ile	
1175	1180	1185		
tct gac	gat aat act att aat	act taa		3591
Ser Asp	Asp Asn Thr Ile Asn	Thr		
1190	1195			

<210> 36

<211> 498

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(498)

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1	5	10
aat cat agc aca gaa gaa ata aaa aat ttt cta att gat aat aat att		96
Asn His Ser Thr Glu Glu Ile Lys Asn Phe Leu Ile Asp Asn Asn Ile		
20	25	30
aaa tgt ata ata aca ata tgg aat ttt aat aaa tta aat ata aaa aaa		144
Lys Cys Ile Ile Thr Ile Trp Asn Phe Asn Lys Leu Asn Ile Lys Lys		
35	40	45
tta aat att aat gtt aaa gat tat atg tat ata cac gca tat gat cta		192
Leu Asn Ile Asn Val Lys Asp Tyr Met Tyr Ile His Ala Tyr Asp Leu		
50	55	60
aca aat gaa ata att att gat tat ttt gat att act aac aaa ttt ata		240
Thr Asn Glu Ile Ile Ile Asp Tyr Phe Asp Ile Thr Asn Lys Phe Ile		
65	70	75
		80

att aat aaa ata aaa gaa ggt aag aaa gta tta att cat tgt tat gct 288
 Ile Asn Lys Ile Lys Glu Gly Lys Lys Val Leu Ile His Cys Tyr Ala
 85 90 95

ggt ata tca aga tct gca agt ata gtt att aat tat ttt atg aat aaa 336
 Gly Ile Ser Arg Ser Ala Ser Ile Val Ile Asn Tyr Phe Met Asn Lys
 100 105 110

tat aat ata aat tat gac gaa gct gaa aaa ata gtt agt aaa aaa cga 384
 Tyr Asn Ile Asn Tyr Asp Glu Ala Glu Lys Ile Val Ser Lys Lys Arg
 115 120 125

aat ata aaa cca aat ata ttt ttt ata ctt caa tta aaa ttt tat aat 432
 Asn Ile Lys Pro Asn Ile Phe Phe Ile Leu Gln Leu Lys Phe Tyr Asn
 130 135 140

tca tat aaa aat ata aat att att tat tta att ata tta ttt gct att 480
 Ser Tyr Lys Asn Ile Asn Ile Ile Tyr Leu Ile Ile Leu Phe Ala Ile
 145 150 155 160

aga tat aca cta aaa tga 498
 Arg Tyr Thr Leu Lys
 165

<210> 37

<211> 210

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (210)

<223>

<400> 37

atg agt gaa aat tta tat tat gta cca gac ata tgt aaa aat tgc aat 48
 Met Ser Glu Asn Leu Tyr Tyr Val Pro Asp Ile Cys Lys Asn Cys Asn
 1 5 10 15

aag tta aat cct aat aat ata ttg gtg ata gac ggt aca tat aga gct 96
 Lys Leu Asn Pro Asn Asn Ile Leu Val Ile Asp Gly Thr Tyr Arg Ala
 20 25 30

gcc tat aat gat tat tat tct gtt agt aat aaa ttg cca tct att aaa 144
 Ala Tyr Asn Asp Tyr Tyr Ser Val Ser Asn Lys Leu Pro Ser Ile Lys
 35 40 45

aca gaa aaa ggt gga tta gca aaa tat cca aaa aaa tta ttt att aga 192
 Thr Glu Lys Gly Gly Leu Ala Lys Tyr Pro Lys Lys Leu Phe Ile Arg
 50 55 60

aat ggt tat tat aag taa 210
 Asn Gly Tyr Tyr Lys
 65

<210> 38

<211> 2163

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (2163)

<223>

<400> 38
 atg caa gaa att aaa aat att tat gat ttt aaa aca tat aat tta ttt 48
 Met Gln Glu Ile Lys Asn Ile Tyr Asp Phe Lys Thr Tyr Asn Leu Phe
 1 5 10 15

ccc gaa tta cat aat aaa tat aac tat att tca cat tta tta ttt cct 96
 Pro Glu Leu His Asn Lys Tyr Asn Tyr Ile Ser His Leu Leu Phe Pro
 20 25 30

aat aat act aat ata ttt caa tca tat att gat ttt gat tat gta aaa 144
 Asn Asn Thr Asn Ile Phe Gln Ser Tyr Ile Asp Phe Asp Tyr Val Lys
 35 40 45

aaa tat aaa tat aat ttt tta ata tta tta tac cct gtt tac aaa cta 192
 Lys Tyr Lys Tyr Asn Phe Leu Ile Leu Leu Tyr Pro Val Tyr Lys Leu
 50 55 60

tat tgg aaa aat atg tat att tgt tat aat caa aat agt aat aaa ata 240
 Tyr Trp Lys Asn Met Tyr Ile Cys Tyr Asn Gln Asn Ser Asn Lys Ile
 65 70 75 80

tat tta gat aat aaa gaa ata tat aat acc agt att gaa tta att aat 288
 Tyr Leu Asp Asn Lys Glu Ile Tyr Asn Thr Ser Ile Glu Leu Ile Asn
 85 90 95

gat ttt tta ata gat gga ata gat ata aat aat aat att ata act att 336
 Asp Phe Leu Ile Asp Gly Ile Asp Ile Asn Asn Asn Ile Ile Thr Ile

100	105	110	
aga tca aac gga tct aca att act tat tct gca tac gca tat gca aca			384
Arg Ser Asn Gly Ser Thr Ile Thr Tyr Ser Ala Tyr Ala Tyr Ala Thr			
115	120	125	
ata tta tat gat tta cca tat aga tta gga aat tta gat att aat caa			432
Ile Leu Tyr Asp Leu Pro Tyr Arg Leu Gly Asn Leu Asp Ile Asn Gln			
130	135	140	
ata ttt gga att gta gaa agt tct aat ata tta gga ata tta tct aca			480
Ile Phe Gly Ile Val Glu Ser Ser Asn Ile Leu Gly Ile Leu Ser Thr			
145	150	155	160
aat gaa gaa caa aaa aaa aag ttt cct aaa tat att aat aat ata gaa			528
Asn Glu Glu Gln Lys Lys Lys Phe Pro Lys Tyr Ile Asn Asn Ile Glu			
165	170	175	
tta gaa aaa aat ata tta ttt aaa ttt aag gaa tct aac ctt aga tca			576
Leu Glu Lys Asn Ile Leu Phe Lys Phe Lys Glu Ser Asn Leu Arg Ser			
180	185	190	
ata caa att gat gta caa tta aaa ata ttt gat tta ttt ata aat aga			624
Ile Gln Ile Asp Val Gln Leu Lys Ile Phe Asp Leu Phe Ile Asn Arg			
195	200	205	
tta aat tgt gtt gtt tct ggt gga act ggt ata gga aaa aca tct att			672
Leu Asn Cys Val Val Ser Gly Gly Thr Gly Ile Gly Lys Thr Ser Ile			
210	215	220	
ata cct aaa ata ata tgg tgg tat aat ctt ctt ttt gat gga tat aat			720
Ile Pro Lys Ile Ile Trp Trp Tyr Asn Leu Leu Phe Asp Gly Tyr Asn			
225	230	235	240
atg ttt aat agt aga att tct aat gta tct ata gat aat ttt ata ttt			768
Met Phe Asn Ser Arg Ile Ser Asn Val Ser Ile Asp Asn Phe Ile Phe			
245	250	255	
gat ata aat ata att gaa aaa aat aca tta tta tca tta cct aga aaa			816
Asp Ile Asn Ile Ile Glu Lys Asn Thr Leu Leu Ser Leu Pro Arg Lys			
260	265	270	
act ata ata aat agt act gct att aat tat ata aaa tca cta ggt tat			864
Thr Ile Ile Asn Ser Thr Ala Ile Asn Tyr Ile Lys Ser Leu Gly Tyr			
275	280	285	
tct gaa ata aca gaa act ccc ata ata ata aaa tat aaa gat ata aaa			912
Ser Glu Ile Thr Glu Thr Pro Ile Ile Ile Lys Tyr Lys Asp Ile Lys			
290	295	300	
tta tat aaa gaa tat tat aat aat aaa att att ttt cca act aat tta			960
Leu Tyr Lys Glu Tyr Tyr Asn Asn Lys Ile Ile Phe Pro Thr Asn Leu			
305	310	315	320
tta ttg tgt gtt aac aga ttg tca ata aat aat tta aaa aat tcc agt			1008
Leu Leu Cys Val Asn Arg Leu Ser Ile Asn Asn Leu Lys Asn Ser Ser			
325	330	335	

gtt ata att ata gat gaa ata cac gaa cat gat aga tat gct gac ata	1056
Val Ile Ile Ile Asp Glu Ile His Glu His Asp Arg Tyr Ala Asp Ile	
340 345 350	
tgt ata gca gta tca tat ttt tta aaa aaa gtt ata aat atc aga aat	1104
Cys Ile Ala Val Ser Tyr Phe Leu Lys Lys Val Ile Asn Ile Arg Asn	
355 360 365	
ata ata tta ata tct gca aca ata gaa ttt gaa ata gat aat ata tta	1152
Ile Ile Leu Ile Ser Ala Thr Ile Glu Phe Glu Ile Asp Asn Ile Leu	
370 375 380	
aga ttt ttt aat aat aaa ata gta caa gta tat ata cct gga ttt aca	1200
Arg Phe Phe Asn Asn Lys Ile Val Gln Val Tyr Ile Pro Gly Phe Thr	
385 390 395 400	
tta ttt cct gtt aca gaa ata gaa aat acg gtt gat agt ata gat aaa	1248
Leu Phe Pro Val Thr Glu Ile Glu Asn Thr Val Asp Ser Ile Asp Lys	
405 410 415	
ata tta tta gat aat aaa cca cct gtt gga tat tct gtt ata ata ttt	1296
Ile Leu Leu Asp Asn Lys Pro Pro Val Gly Tyr Ser Val Ile Ile Phe	
420 425 430	
tat gaa tca ata cca aaa tta act ttt att aaa aaa aaa tta gaa gaa	1344
Tyr Glu Ser Ile Pro Lys Leu Thr Phe Ile Lys Lys Lys Leu Glu Glu	
435 440 445	
agt ata aaa gat cct ata tat aaa ttt tat tct ata cac gga aaa aca	1392
Ser Ile Lys Asp Pro Ile Tyr Lys Phe Tyr Ser Ile His Gly Lys Thr	
450 455 460	
gat aat gct aat gaa gtt att cgt tat ata gaa aat aat aaa aaa cat	1440
Asp Asn Ala Asn Glu Val Ile Arg Tyr Ile Glu Asn Asn Lys Lys His	
465 470 475 480	
att cat gtc ata ata agt aca aat tat tta gaa tca tct ata act ata	1488
Ile His Val Ile Ile Ser Thr Asn Tyr Leu Glu Ser Ser Ile Thr Ile	
485 490 495	
tcg aat gct aaa tta gta ata gat aat gga aaa gta tat aga aaa gaa	1536
Ser Asn Ala Lys Leu Val Ile Asp Asn Gly Lys Val Tyr Arg Lys Glu	
500 505 510	
ttt ata gat gga aat ata aca tat ata aca aat agt atg tat aaa caa	1584
Phe Ile Asp Gly Asn Ile Thr Tyr Ile Thr Asn Ser Met Tyr Lys Gln	
515 520 525	
aga aaa ggt aga gta gga aga gtg tca aaa gga aca tat ata aga aca	1632
Arg Lys Gly Arg Val Gly Arg Val Ser Lys Gly Thr Tyr Ile Arg Thr	
530 535 540	
tac aca tta gat aaa tta aat act aat ttt aaa aat ata aat tat caa	1680
Tyr Thr Leu Asp Lys Leu Asn Thr Asn Phe Lys Asn Ile Asn Tyr Gln	
545 550 555 560	

tat tta tgg gat tac ata ata att ttt aaa tat tat ggt tta gat ata	1728
Tyr Leu Trp Asp Tyr Ile Ile Ile Phe Lys Tyr Tyr Gly Leu Asp Ile	
565 570 575	
aaa aaa gat tat ttt gta att cct gat aat att aat aga gta gat aaa	1776
Lys Lys Asp Tyr Phe Val Ile Pro Asp Asn Ile Asn Arg Val Asp Lys	
580 585 590	
act gtt aat tat atg aag tct ata gga ata gat ata gat aaa tgt ata	1824
Thr Val Asn Tyr Met Lys Ser Ile Gly Ile Asp Ile Asp Lys Cys Ile	
595 600 605	
aat aaa ata tat aga att ttt aat aaa tat gaa att aat atg tta gaa	1872
Asn Lys Ile Tyr Arg Ile Phe Asn Lys Tyr Glu Ile Asn Met Leu Glu	
610 615 620	
tat ttt att ata tat ttg tat ggt tca gaa act gag aaa tta tta ttg	1920
Tyr Phe Ile Ile Tyr Leu Tyr Gly Ser Glu Thr Glu Lys Leu Leu Leu	
625 630 635 640	
agc aca gat gat aaa aat ata att gat ata cct tat aaa ata tat aat	1968
Ser Thr Asp Asp Lys Asn Ile Ile Asp Ile Pro Tyr Lys Ile Tyr Asn	
645 650 655	
ata tat gta aaa atg aat gta aaa ata aaa ttg gaa tct aaa aga agt	2016
Ile Tyr Val Lys Met Asn Val Lys Ile Lys Leu Glu Ser Lys Arg Ser	
660 665 670	
att ata tat ata ttt aaa ttt att aat gat gta tat gat ggt ccg caa	2064
Ile Ile Tyr Ile Phe Lys Phe Ile Asn Asp Val Tyr Asp Gly Pro Gln	
675 680 685	
aaa ttt aaa tat att aat aca gac gaa aat gta tat ttt gat aaa aat	2112
Lys Phe Lys Tyr Ile Asn Thr Asp Glu Asn Val Tyr Phe Asp Lys Asn	
690 695 700	
aaa ata tat tat tta aaa tct gaa aat cca ctg att att atg aga gat	2160
Lys Ile Tyr Tyr Leu Lys Ser Glu Asn Pro Leu Ile Ile Met Arg Asp	
705 710 715 720	
taa	2163

<210> 39

<211> 813

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(813)

<223>

<400> 39

atg	tat	ata	caa	ata	cca	gaa	tat	aaa	aag	tca	tat	atg	tgt	aaa	agt	48
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1				5					10					15		

tta	ata	aac	tct	gga	aca	tac	gga	att	gta	tat	aaa	tat	gca	gat	att	96
Leu	Ile	Asn	Ser	Gly	Thr	Tyr	Gly	Ile	Val	Tyr	Lys	Tyr	Ala	Asp	Ile	
			20					25					30			

tat	aca	aaa	aat	aat	gtt	gcg	att	aaa	ttt	ttt	aga	aat	aat	gat	aat	144
Tyr	Thr	Lys	Asn	Asn	Val	Ala	Ile	Lys	Phe	Phe	Arg	Asn	Asn	Asp	Asn	
		35					40					45				

ttt	aca	cac	gaa	ata	aat	att	tta	aat	tat	att	aaa	aaa	aaa	ata	tat	192
Phe	Thr	His	Glu	Ile	Asn	Ile	Leu	Asn	Tyr	Ile	Lys	Lys	Lys	Ile	Tyr	
	50					55					60					

aat	aat	tct	gat	agt	gat	gaa	ata	aac	gaa	gtt	aaa	aaa	aat	atc	tgt	240
Asn	Asn	Ser	Asp	Ser	Asp	Glu	Ile	Asn	Glu	Val	Lys	Lys	Asn	Ile	Cys	
65					70					75				80		

ttt	ccg	ata	ttt	ttt	aca	aat	gaa	aat	aat	gtt	tca	aaa	tat	att	ata	288
Phe	Pro	Ile	Phe	Phe	Thr	Asn	Glu	Asn	Asn	Val	Ser	Lys	Tyr	Ile	Ile	
				85					90					95		

ttt	aat	tat	tat	gat	tat	gat	tta	tta	tat	tac	gca	tct	aca	tat	ata	336
Phe	Asn	Tyr	Tyr	Asp	Tyr	Asp	Leu	Leu	Tyr	Tyr	Ala	Ser	Thr	Tyr	Ile	
			100					105					110			

tta	ctt	aat	caa	gat	ata	tta	aat	ata	agt	tta	caa	ata	tgc	aat	gga	384
Leu	Leu	Asn	Gln	Asp	Ile	Leu	Asn	Ile	Ser	Leu	Gln	Ile	Cys	Asn	Gly	
		115					120					125				

ctg	aaa	tat	tta	cat	aaa	aat	tct	att	gtt	cat	tgt	gat	tta	aaa	cca	432
Leu	Lys	Tyr	Leu	His	Lys	Asn	Ser	Ile	Val	His	Cys	Asp	Leu	Lys	Pro	
	130					135					140					

gag	aat	ata	tta	tgt	aaa	tat	aaa	aat	gat	aca	ttg	cat	ctt	gtt	ata	480
Glu	Asn	Ile	Leu	Cys	Lys	Tyr	Lys	Asn	Asp	Thr	Leu	His	Leu	Val	Ile	
145					150					155				160		

aca	gat	ttt	gga	tta	tcg	tat	ata	gaa	aat	aat	att	att	gat	tat	gaa	528
Thr	Asp	Phe	Gly	Leu	Ser	Tyr	Ile	Glu	Asn	Asn	Ile	Ile	Asp	Tyr	Glu	
			165						170					175		

atc	gta	aca	ttt	agt	tat	aga	tct	cct	gaa	tta	ata	tgt	act	att	aat	576
Ile	Val	Thr	Phe	Ser	Tyr	Arg	Ser	Pro	Glu	Leu	Ile	Cys	Thr	Ile	Asn	
			180					185					190			

aat	aaa	aac	aat	ata	att	gta	aag	tct	tct	ata	gat	atg	tggt	tct	ttt	624
Asn	Lys	Asn	Asn	Ile	Ile	Val	Lys	Ser	Ser	Ile	Asp	Met	Trp	Ser	Phe	

195	200	205	
ggg gta att ata tat ttt tta att aat aaa ttt tat ttt gat att tat			672
Gly Val Ile Ile Tyr Phe	Leu Ile Asn Lys Phe	Tyr Phe Asp Ile Tyr	
210	215	220	
aat att gaa aaa tat ata gaa tct aat cct ata aaa aaa tta tgt aac			720
Asn Ile Glu Lys Tyr Ile	Glu Ser Asn Pro Ile	Lys Lys Leu Cys Asn	
225	230	235 240	
att aac tcg att gtt gat aga ctg cta caa tat gaa aaa gat aga tat			768
Ile Asn Ser Ile Val Asp Arg	Leu Leu Gln Tyr Glu	Lys Asp Arg Tyr	
245	250	255	
aca agt tat caa ata tat aat gat ctg aaa aaa tta ttg aaa taa			813
Thr Ser Tyr Gln Ile Tyr Asn Asp	Leu Lys Lys Leu Leu Lys		
260	265	270	

<210> 40

<211> 2181

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (2181)

<223>

<400> 40

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1 5 10 15		
gaa tct aaa ata gat tta ata tta aat gat aaa act agt aaa gat tta		96
Glu Ser Lys Ile Asp Leu Ile Leu Asn Asp Lys Thr Ser Lys Asp Leu		
20 25 30		
gtt aaa ata agt ata tcc aaa ata tgt aga agt att tta aaa tat aaa		144
Val Lys Ile Ser Ile Ser Lys Ile Cys Arg Ser Ile Leu Lys Tyr Lys		
35 40 45		
gat agc aat caa cct att tct gaa tat cat gaa ttt ata ctt gat gat		192
Asp Ser Asn Gln Pro Ile Ser Glu Tyr His Glu Phe Ile Leu Asp Asp		
50 55 60		
att act gat tat ttt aaa tta ttt ttt gat ata gat tgt aaa aca gaa		240

Ile Thr Asp Tyr Phe Lys Leu Phe Phe Asp Ile Asp Cys Lys Thr Glu	
65 70 75 80	
tat gaa atc gat gat gtt aaa aaa tat att aaa gaa ttt aaa aaa ttt	288
Tyr Glu Ile Asp Asp Val Lys Lys Tyr Ile Lys Glu Phe Lys Lys Phe	
85 90 95	
ata tca tat gaa ttg tat aat ata ttt tct aat aat ttt gat ata gag	336
Ile Ser Tyr Glu Leu Tyr Asn Ile Phe Ser Asn Asn Phe Asp Ile Glu	
100 105 110	
aat cat aac atc gat aat ata aaa aaa ttt ata ttt aat aat att tac	384
Asn His Asn Ile Asp Asn Ile Lys Lys Phe Ile Phe Asn Asn Ile Tyr	
115 120 125	
tat aca tta tct gat aat ccg cac aaa tta tct tta cat ata ttt ttt	432
Tyr Thr Leu Ser Asp Asn Pro His Lys Leu Ser Leu His Ile Phe Phe	
130 135 140	
aat caa ata tta gta agt cct aca tca ttt ata caa tta aag aaa tat	480
Asn Gln Ile Leu Val Ser Pro Thr Ser Phe Ile Gln Leu Lys Lys Tyr	
145 150 155 160	
ata ata aat tta aga tca aaa ata aat aat att tta atc aat aat ata	528
Ile Ile Asn Leu Arg Ser Lys Ile Asn Asn Ile Leu Ile Asn Asn Ile	
165 170 175	
gat tta gct cct ttt aga aga aat aca caa tta aga ttt ata tat agt	576
Asp Leu Ala Pro Phe Arg Arg Asn Thr Gln Leu Arg Phe Ile Tyr Ser	
180 185 190	
aag aaa aat gat agt gaa tat ttt cac tca gag cat gat tat aat ata	624
Lys Lys Asn Asp Ser Glu Tyr Phe His Ser Glu His Asp Tyr Asn Ile	
195 200 205	
gaa aat ata gaa gat tta aaa aaa tat ata ata aca tat aaa aat ttt	672
Glu Asn Ile Glu Asp Leu Lys Lys Tyr Ile Ile Thr Tyr Lys Asn Phe	
210 215 220	
aat gaa cca cat att ata ata aaa gca aaa gat aat aat tta aca aat	720
Asn Glu Pro His Ile Ile Ile Lys Ala Lys Asp Asn Asn Leu Thr Asn	
225 230 235 240	
ctt gat gta att tat cct cat att aaa tat ttt aga ggt cct cat ttt	768
Leu Asp Val Ile Tyr Pro His Ile Lys Tyr Phe Arg Gly Pro His Phe	
245 250 255	
att aga aat att tct aaa gaa tta tat aat aat tat aaa att aca att	816
Ile Arg Asn Ile Ser Lys Glu Leu Tyr Asn Asn Tyr Lys Ile Thr Ile	
260 265 270	
tct gat gat tca att cag tta ttt aaa aaa aaa cat agc gct gaa tta	864
Ser Asp Asp Ser Ile Gln Leu Phe Lys Lys Lys His Ser Ala Glu Leu	
275 280 285	
gac gaa att att gat ata aat ttg ata ttt aat act cct gat tgt aaa	912
Asp Glu Ile Ile Asp Ile Asn Leu Ile Phe Asn Thr Pro Asp Cys Lys	

290	295	300	
ata tgt ggt aaa aat tct tta cat aaa aat aat aga att ata aaa ttt			960
Ile Cys Gly Lys Asn Ser Leu His Lys Asn Asn Arg Ile Ile Lys Phe			
305	310	315	320
aca gaa caa aaa ata att tta ttt aag agt gga aat cca aga aat tgt			1008
Thr Glu Gln Lys Ile Ile Leu Phe Lys Ser Gly Asn Pro Arg Asn Cys			
325	330		335
aat aca tta aaa tat gat tat cct acg tta tca gga tat gaa ttg gct			1056
Asn Thr Leu Lys Tyr Asp Tyr Pro Thr Leu Ser Gly Tyr Glu Leu Ala			
340	345		350
aat ttt ata aga gat tta aat att att aaa aag ata gat tct gat gca			1104
Asn Phe Ile Arg Asp Leu Asn Ile Ile Lys Lys Ile Asp Ser Asp Ala			
355	360		365
tat gtt tat tgg aaa aat gga aaa tgg gca atc gtt gat aat cct tat			1152
Tyr Val Tyr Trp Lys Asn Gly Lys Trp Ala Ile Val Asp Asn Pro Tyr			
370	375		380
att ttt caa gga ata agt aat atg ata tta gaa aaa tac aga aac aat			1200
Ile Phe Gln Gly Ile Ser Asn Met Ile Leu Glu Lys Tyr Arg Asn Asn			
385	390	395	400
atg tta ata caa gat ata gat tat att ata aaa aaa ttt ttt gga gaa			1248
Met Leu Ile Gln Asp Ile Asp Tyr Ile Ile Lys Lys Phe Phe Gly Glu			
405	410		415
gca aaa aat aga ata agt gct aac tta tct atg aat aca gat att att			1296
Ala Lys Asn Arg Ile Ser Ala Asn Leu Ser Met Asn Thr Asp Ile Ile			
420	425		430
tgt ttt aat cct tat att ata caa ttt aat aat gga gta tat gat tta			1344
Cys Phe Asn Pro Tyr Ile Ile Gln Phe Asn Asn Gly Val Tyr Asp Leu			
435	440		445
aaa gaa tct aaa ttt tat act ggc gag aat gca aaa aaa tat att cgt			1392
Lys Glu Ser Lys Phe Tyr Thr Gly Glu Asn Ala Lys Lys Tyr Ile Arg			
450	455		460
cta aac tat att aaa att gat tat aaa gat ata gaa gat atg tct gat			1440
Leu Asn Tyr Ile Lys Ile Asp Tyr Lys Asp Ile Glu Asp Met Ser Asp			
465	470	475	480
gaa gaa aaa att aaa ttt gaa aat aat tat aat att ctt tta aaa tta			1488
Glu Glu Lys Ile Lys Phe Glu Asn Asn Tyr Asn Ile Leu Leu Lys Leu			
485	490		495
ttt aat tta gtt att ccc aaa tct aat cct aaa agg ata gtt ttt gaa			1536
Phe Asn Leu Val Ile Pro Lys Ser Asn Pro Lys Arg Ile Val Phe Glu			
500	505		510
act aat tta tcg tct gtg tta cat tat tgt cat aaa agt gtt ata aca			1584
Thr Asn Leu Ser Ser Val Leu His Tyr Cys His Lys Ser Val Ile Thr			
515	520		525

ata tta tat ggt cca act tct gga ggt aaa tct act att aaa tat tta	1632
Ile Leu Tyr Gly Pro Thr Ser Gly Gly Lys Ser Thr Ile Lys Tyr Leu	
530 535 540	
tta aga caa tta ttg ttt gac atg ttt tta gaa cct cct ata gaa ttt	1680
Leu Arg Gln Leu Leu Phe Asp Met Phe Leu Glu Pro Pro Ile Glu Phe	
545 550 555 560	
tat caa aat tat att cca aaa aat tca ccc aac tct tgg tta ggt aaa	1728
Tyr Gln Asn Tyr Ile Pro Lys Asn Ser Pro Asn Ser Trp Leu Gly Lys	
565 570 575	
gta gaa gat aaa tta gtt tct ttt gct tcg gaa ggt gat gtt aat cga	1776
Val Glu Asp Lys Leu Val Ser Phe Ala Ser Glu Gly Asp Val Asn Arg	
580 585 590	
aat gaa gta ttt cta aac aaa aat ata aaa caa tat aca gaa caa tat	1824
Asn Glu Val Phe Leu Asn Lys Asn Ile Lys Gln Tyr Thr Glu Gln Tyr	
595 600 605	
att tta ggt aga gat tta aat aaa tct aaa tgt gtt cac aaa aat aca	1872
Ile Leu Gly Arg Asp Leu Asn Lys Ser Lys Cys Val His Lys Asn Thr	
610 615 620	
tta aca caa ttt ata gat tta aat cca aaa cct atg ttt agt tca gta	1920
Leu Thr Gln Phe Ile Asp Leu Asn Pro Lys Pro Met Phe Ser Ser Val	
625 630 635 640	
gat cct gct ttg gtc aaa cgt att gca gtt ata gaa ata aat gag acg	1968
Asp Pro Ala Leu Val Lys Arg Ile Ala Val Ile Glu Ile Asn Glu Thr	
645 650 655	
caa ttc gtc aat gaa aaa tta tca cga gat act gtc aat ata aca tca	2016
Gln Phe Val Asn Glu Lys Leu Ser Arg Asp Thr Val Asn Ile Thr Ser	
660 665 670	
gat aat aga aat ata gta ata gca gat tct acg ttt gac gat aaa att	2064
Asp Asn Arg Asn Ile Val Ile Ala Asp Ser Thr Phe Asp Asp Lys Ile	
675 680 685	
tta aat aat gaa ttt acg cta ccg tta ttt tat att ctg aag aaa tgg	2112
Leu Asn Asn Glu Phe Thr Leu Pro Leu Phe Tyr Ile Leu Lys Lys Trp	
690 695 700	
tct aaa aaa tac cat aaa gat act gtc aaa tta tta tac acc cct gac	2160
Ser Lys Lys Tyr His Lys Asp Thr Val Lys Leu Leu Tyr Thr Pro Asp	
705 710 715 720	
ttt ttt gat aaa caa aat tga	2181
Phe Phe Asp Lys Gln Asn	
725	

<210> 41

<211> 1885

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (1885)

<223>

<400> 41

atg gaa gaa tta tat tca tta ata aac tac gca tat tct aat gat att	48
Met Glu Glu Leu Tyr Ser Leu Ile Asn Tyr Ala Tyr Ser Asn Asp Ile	
1 5 10 15	
aaa aga aca ata gta aat ttt aga ttt tcg att gat aat aaa ata tat	96
Lys Arg Thr Ile Val Asn Phe Arg Phe Ser Ile Asp Asn Lys Ile Tyr	
20 25 30	
aaa aat tta ttt tct aat ttt cgc gaa gat ata ata att aat aat gaa	144
Lys Asn Leu Phe Ser Asn Phe Arg Glu Asp Ile Ile Ile Asn Asn Glu	
35 40 45	
tat tct agt act aaa ctt aat aat att aaa aac ata gta gaa gtt aga	192
Tyr Ser Ser Thr Lys Leu Asn Asn Ile Lys Asn Ile Val Glu Val Arg	
50 55 60	
tgt tgt tat aaa aat aaa aat ata att aat tta tcg ttg ata aat ccc	240
Cys Cys Tyr Lys Asn Lys Asn Ile Ile Asn Leu Ser Leu Ile Asn Pro	
65 70 75 80	
gaa ata tat aaa aat att att aat ata aat aat aaa aat aat aaa aaa	288
Glu Ile Tyr Lys Asn Ile Ile Asn Ile Asn Asn Lys Asn Asn Lys Lys	
85 90 95	
aaa tgc att aat att aat gcc att aaa gaa aat gaa aat aca caa tat	336
Lys Cys Ile Asn Ile Asn Ala Ile Lys Glu Asn Glu Asn Thr Gln Tyr	
100 105 110	
ctt aaa tat tat tta aat aat tgc aat act agt ttt gat tct ttt att	384
Leu Lys Tyr Tyr Leu Asn Asn Cys Asn Thr Ser Phe Asp Ser Phe Ile	
115 120 125	
aaa aaa aaa aaa gaa aag aag aaa act tta ata aag tta ttt aat aat	432
Lys Lys Lys Lys Glu Lys Lys Lys Thr Leu Ile Lys Leu Phe Asn Asn	
130 135 140	
gat aat gtg cat aat ata tca aat aac act aat cat act aga tat tat	480
Asp Asn Val His Asn Ile Ser Asn Asn Thr Asn His Thr Arg Tyr Tyr	

145	150	155	160	
gaa ata gag tct	gaa tat aat aac tta	aca tca gag gtt	aca ata aaa	528
Glu Ile Glu Ser	Glu Tyr Asn Asn Leu	Thr Ser Glu Val	Thr Ile Lys	
	165	170	175	
tat aaa ata ata	tta gaa ata att aat	gaa aaa att att	act gaa ggt	576
Tyr Lys Ile Ile	Leu Glu Ile Ile	Asn Glu Lys Ile	Ile Thr Glu Gly	
	180	185	190	
aga tta tta tta	cca aat tct att agt	ata act gtt tca	aat aga tca	624
Arg Leu Leu Leu	Pro Asn Ser Ile	Thr Val Ser Asn	Arg Ser	
	195	200	205	
aga att ata tta	tat gat aat aat aaa	ata cag ata ata	tta tca aaa	672
Arg Ile Ile Leu	Tyr Asp Asn Asn Lys	Ile Gln Ile Ile	Leu Ser Lys	
	210	215	220	
gat aaa tca gaa	aat aat atg caa	gat ttt aat aat	ata tgt tct aat	720
Asp Lys Ser Glu	Asn Asn Met Gln	Asp Phe Asn Asn	Ile Cys Ser Asn	
225	230	235	240	
ata tta aaa aca	ttc ttc tct ata	aca aaa gaa tac	aca aat aat gaa	768
Ile Leu Lys Thr	Phe Phe Ser Ile	Thr Lys Glu Tyr	Thr Asn Asn Glu	
	245	250	255	
ata aac gaa aaa	cac ata aaa tcg	ctt agt ata cat	tgt gat ttt aat	816
Ile Asn Glu Lys	His Ile Lys Ser	Leu Ser Ile His	Cys Asp Phe Asn	
	260	265	270	
tat act aat agt	ata tta aaa tac	cca ata ttt ttt	gaa gat aaa aaa	864
Tyr Thr Asn Ser	Ile Leu Lys Tyr	Pro Ile Phe Phe	Glu Asp Lys Lys	
	275	280	285	
ata agg ttt ttt	gga aaa aat aaa	att agt ata aaa	tcc ata aca tca	912
Ile Arg Phe Phe	Gly Lys Asn Lys	Ile Ser Ile Lys	Ser Ile Thr Ser	
	290	295	300	
aaa tct aaa tta	gag aaa att tac	aca tat ata gaa	aaa aat ata tgt	960
Lys Ser Lys Leu	Glu Lys Ile Tyr	Thr Tyr Ile Glu	Lys Asn Ile Cys	
305	310	315	320	
aat ata caa aaa	ttg tat gat gat	ata gat aat tgt	gat ccg ata aat	1008
Asn Ile Gln Lys	Leu Tyr Asp Asp	Ile Asp Asn Cys	Asp Pro Ile Asn	
	325	330	335	
gat ccc att gat	gat ata aat aca	cta gta aat aaa	ata tat ttc aat	1056
Asp Pro Ile Asp	Asp Ile Asn Thr	Leu Val Asn Lys	Ile Tyr Phe Asn	
	340	345	350	
aat tta ttg aaa	tta aat aaa tta	ata tta aat tat	aat gga ttt aat	1104
Asn Leu Leu Lys	Asn Lys Leu Ile	Leu Asn Tyr Asn	Gly Phe Asn	
	355	360	365	
aga ata cga caa	tta tta tat tga	acc tat tgc taa	tag aaa aga	1152
Arg Ile Arg Gln	Ser Leu Tyr	Thr Tyr Cys	Lys Arg	
	370	375		

tat ata tct aaa ttt tgt aac agc gcc ttt ggt gca aga tat aga ttg	1200
Tyr Ile Ser Lys Phe Cys Asn Ser Ala Phe Gly Ala Arg Tyr Arg Leu	
380 385 390 395	
ttc att aat aaa aca tga gga taa tat tta tga tgt tac taa ata ttt	1248
Phe Ile Asn Lys Thr Gly Tyr Leu Cys Tyr Ile Phe	
400 405	
tgt att taa aac ata caa tta cga aga tat ata tat agt tta tga tgt	1296
Cys Ile Asn Ile Gln Leu Arg Arg Tyr Ile Tyr Ser Leu Cys	
410 415 420	
gtt att aaa caa agt tgt att att taa att taa ttt tac aat aaa aga	1344
Val Ile Lys Gln Ser Cys Ile Ile Ile Phe Tyr Asn Lys Arg	
425 430 435	
ata tat aat tat aaa taa ttt ttt aat aat aat tta taa tga caa cga	1392
Ile Tyr Asn Tyr Lys Phe Phe Asn Asn Asn Leu Gln Arg	
440 445	
taa cat aat aat tga tat cga aga taa aaa ata tat aaa att taa aaa	1440
His Asn Asn Tyr Arg Arg Lys Ile Tyr Lys Ile Lys	
450 455 460	
atg gaa atc ttt att act aaa ttg tac aca aat agc taa tta tat taa	1488
Met Glu Ile Phe Ile Thr Lys Leu Tyr Thr Asn Ser Leu Tyr	
465 470	
att aat aga aga tga aaa taa aaa aat att tgt taa ata tat aac aaa	1536
Ile Asn Arg Arg Lys Lys Asn Ile Cys Ile Tyr Asn Lys	
475 480 485	
aaa tga tat ttt aat aga taa taa tac tat tga taa taa taa aat aaa	1584
Lys Tyr Phe Asn Arg Tyr Tyr Asn Lys	
490 495	
aaa ata taa taa aat aaa atg tat taa tat aga aaa taa agt tac att	1632
Lys Ile Asn Lys Met Tyr Tyr Arg Lys Ser Tyr Ile	
500 505	
atc aat att aga caa taa taa tga att ata tat aaa taa taa att att	1680
Ile Asn Ile Arg Gln Ile Ile Tyr Lys Ile Ile	
510 515	
taa gct aga tta caa tat ata taa tat att taa ttt ttc gtt aaa aca	1728
Ala Arg Leu Gln Tyr Ile Tyr Ile Phe Phe Val Lys Thr	
520 525 530	
tgt att att att aac aga tat aga cga tgg aaa tat tat aat ttt aaa	1776
Cys Ile Ile Ile Asn Arg Tyr Arg Arg Trp Lys Tyr Tyr Asn Phe Lys	
535 540 545	
ttt aga aaa ttt aga aca aga tga ata caa aaa tta tta tga tat aat	1824
Phe Arg Lys Phe Arg Thr Arg Ile Gln Lys Leu Leu Tyr Asn	
550 555 560	

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agt aat gat aaa tga taa gtt tta taa taa tat cag aaa cgc att ttt      1872
Ser Asn Asp Lys          Val Leu          Tyr Gln Lys Arg Ile Phe
          565                      570

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agt taa tga tta a                      1885
Ser          Leu
575

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<210> 42

<211> 789

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(789)

<223>

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<400> 42
atg ctc gat ata acc aaa tct att ata tct tcg ggt ata aat ata aaa      48
Met Leu Asp Ile Thr Lys Ser Ile Ile Ser Ser Gly Ile Asn Ile Lys
1          5          10          15

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tta cca agt gtt aac ata ata caa aat ata aaa cca aaa tat tat aat      96
Leu Pro Ser Val Asn Ile Ile Gln Asn Ile Lys Pro Lys Tyr Tyr Asn
          20          25          30

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aat agt tct ccc aaa tca tat ttt ggg att ata tat cat tta ttg tca      144
Asn Ser Ser Pro Lys Ser Tyr Phe Gly Ile Ile Tyr His Leu Leu Ser
          35          40          45

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ata gtt ata gaa ata caa gac aca tat aaa tta aat gat aat ata gga      192
Ile Val Ile Glu Ile Gln Asp Thr Tyr Lys Leu Asn Asp Asn Ile Gly
          50          55          60

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tat ttt aca aaa tat gat gat atg aag aaa aaa aat aaa aca gat tac      240
Tyr Phe Thr Lys Tyr Asp Asp Met Lys Lys Lys Asn Lys Thr Asp Tyr
65          70          75          80

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gat tat tct tat aat aat ctt ttt aaa aca gat att aaa tta gaa aaa      288
Asp Tyr Ser Tyr Asn Asn Leu Phe Lys Thr Asp Ile Lys Leu Glu Lys
          85          90          95

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agt ggt tca tcg atg aag aat tgg aca aat ata tat aat aca aca gat      336
Ser Gly Ser Ser Met Lys Asn Trp Thr Asn Ile Tyr Asn Thr Thr Asp
          100          105          110

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gtt act att gat ata tta aat ccg tta aat aaa aaa cac gat aaa cta 384
 Val Thr Ile Asp Ile Leu Asn Pro Leu Asn Lys Lys His Asp Lys Leu
 115 120 125

tct ata aga tta cct tgt gta ata tct aca tct gtt ata cat tat tta 432
 Ser Ile Arg Leu Pro Cys Val Ile Ser Thr Ser Val Ile His Tyr Leu
 130 135 140

tat att tta tca tat att tat gaa tca gtt aca tta ata aaa gaa gat 480
 Tyr Ile Leu Ser Tyr Ile Tyr Glu Ser Val Thr Leu Ile Lys Glu Asp
 145 150 155 160

ttg tgg tta aac gat agt ttt ata gtt aaa tgt gaa aat tta aga aca 528
 Leu Trp Leu Asn Asp Ser Phe Ile Val Lys Cys Glu Asn Leu Arg Thr
 165 170 175

aat aat tat aat aat gta aaa tcg cag tta aaa aca att gta ttt aat 576
 Asn Asn Tyr Asn Asn Val Lys Ser Gln Leu Lys Thr Ile Val Phe Asn
 180 185 190

gaa aaa aca aga caa tat aaa ata gac gga tta ttt aaa aat ttc ata 624
 Glu Lys Thr Arg Gln Tyr Lys Ile Asp Gly Leu Phe Lys Asn Phe Ile
 195 200 205

ata gac gaa agt ttt aaa aat ata ata agt aaa ttt att aat gat att 672
 Ile Asp Glu Ser Phe Lys Asn Ile Ile Ser Lys Phe Ile Asn Asp Ile
 210 215 220

caa tgt gtt ata tgc gat cta tgg tta act att caa aaa aat ata aat 720
 Gln Cys Val Ile Cys Asp Leu Trp Leu Thr Ile Gln Lys Asn Ile Asn
 225 230 235 240

gat tca cca tct gat aga aaa aaa att tat tgg gaa gaa tat gat aat 768
 Asp Ser Pro Ser Asp Arg Lys Lys Ile Tyr Trp Glu Glu Tyr Asp Asn
 245 250 255

att ttg gga ttt caa aat tga 789
 Ile Leu Gly Phe Gln Asn
 260

<210> 43

<211> 2304

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(2304)

<223>

<400> 43

atg gat ata aca gat aat agt tat gaa tat tcg aca ata aac cca caa	48
Met Asp Ile Thr Asp Asn Ser Tyr Glu Tyr Ser Thr Ile Asn Pro Gln	
1 5 10 15	
ggt ata ttt tta ttt gat gaa aac aag aat gtt aaa aag aca ata ttt	96
Val Ile Phe Leu Phe Asp Glu Asn Lys Asn Val Lys Lys Thr Ile Phe	
20 25 30	
tta tct aaa gat agt ata ata gat aat agt ttt gca tat gga gta tat	144
Leu Ser Lys Asp Ser Ile Ile Asp Asn Ser Phe Ala Tyr Gly Val Tyr	
35 40 45	
aat tat tta tta tct aca aat aca aaa ttt cta tca caa cca gaa tat	192
Asn Tyr Leu Leu Ser Thr Asn Thr Lys Phe Leu Ser Gln Pro Glu Tyr	
50 55 60	
att aat gat cat gtt ata tta tca ttc aat ctt gaa caa gct aga gga	240
Ile Asn Asp His Val Ile Leu Ser Phe Asn Leu Glu Gln Ala Arg Gly	
65 70 75 80	
tac att aga aat ata tta aga att aac gaa aat att att tta ttt tca	288
Tyr Ile Arg Asn Ile Leu Arg Ile Asn Glu Asn Ile Ile Leu Phe Ser	
85 90 95	
ata tgg cat aat tta gat tat tat tat aat aac aat gaa ata ttt gat	336
Ile Trp His Asn Leu Asp Tyr Tyr Tyr Asn Asn Asn Glu Ile Phe Asp	
100 105 110	
cca tat aat ata aaa aat aat tta tta ata gaa tct aat gat aat aaa	384
Pro Tyr Asn Ile Lys Asn Asn Leu Leu Ile Glu Ser Asn Asp Asn Lys	
115 120 125	
aaa ata tta tat atg tta gat att agt att act aat ggt gct ata ttt	432
Lys Ile Leu Tyr Met Leu Asp Ile Ser Ile Thr Asn Gly Ala Ile Phe	
130 135 140	
tgt gtt act act aac agt tat act aat aca aat tta gct aaa gaa ggc	480
Cys Val Thr Thr Asn Ser Tyr Thr Asn Thr Asn Leu Ala Lys Glu Gly	
145 150 155 160	
ata tat tca aaa att tat aca gaa tat ata caa gaa ata ata ttt aat	528
Ile Tyr Ser Lys Ile Tyr Thr Glu Tyr Ile Gln Glu Ile Ile Phe Asn	
165 170 175	
ata tat aaa aat aac tat aaa tta tct tcc gtt gta aaa gaa tca gaa	576
Ile Tyr Lys Asn Asn Tyr Lys Leu Ser Ser Val Val Lys Glu Ser Glu	
180 185 190	
gaa tat tct tta aca aat aat ttt gat gat ata atc aaa tta tca aat	624
Glu Tyr Ser Leu Thr Asn Asn Phe Asp Asp Ile Ile Lys Leu Ser Asn	

195	200	205	
att aat aaa tat aaa aag aca tta tgt att ggc gta tat gat aaa tat Ile Asn Lys Tyr Lys Lys Thr Leu Cys Ile Gly Val Tyr Asp Lys Tyr 210 215 220			672
tat ata aag ggt gat aaa ata tca atc ttg gat aac tac aac gat tca Tyr Ile Lys Gly Asp Lys Ile Ser Ile Leu Asp Asn Tyr Asn Asp Ser 225 230 235 240			720
gaa tat aca tca tta tac ata tat ata gat caa aat aat ata ata aaa Glu Tyr Thr Ser Leu Tyr Ile Tyr Ile Asp Gln Asn Asn Ile Ile Lys 245 250 255			768
atc act aat gat gta tta ata aca gaa aaa tta act tat ttt aca gat Ile Thr Asn Asp Val Leu Ile Thr Glu Lys Leu Thr Tyr Phe Thr Asp 260 265 270			816
ata tta aaa gaa gaa gaa ata aaa aat ata att att aaa tca act agt Ile Leu Lys Glu Glu Glu Ile Lys Asn Ile Ile Ile Lys Ser Thr Ser 275 280 285			864
cca aaa agt att ata tat ata tat ttt gat acg ttt tta gac tct aat Pro Lys Ser Ile Ile Tyr Ile Tyr Phe Asp Thr Phe Leu Asp Ser Asn 290 295 300			912
ata aat ata caa tat gat ctt aaa ttt ttt cta aat gtt aca aac act Ile Asn Ile Gln Tyr Asp Leu Lys Phe Phe Leu Asn Val Thr Asn Thr 305 310 315 320			960
aga aat ata ttt ata gat atg tct tat aaa att aat att atg aca tct Arg Asn Ile Phe Ile Asp Met Ser Tyr Lys Ile Asn Ile Met Thr Ser 325 330 335			1008
aaa aat cac ata tca ttt aga tct ttt aac ata gat gta aat tta tgt Lys Asn His Ile Ser Phe Arg Ser Phe Asn Ile Asp Val Asn Leu Cys 340 345 350			1056
aaa tat tta tcg tta ttg ata tta gga tat aat cat att ttt aat aaa Lys Tyr Leu Ser Leu Leu Ile Leu Gly Tyr Asn His Ile Phe Asn Lys 355 360 365			1104
ata caa aaa cac gct aga ctt aaa aaa att gat gag ctt tat cct tcg Ile Gln Lys His Ala Arg Leu Lys Lys Ile Asp Glu Leu Tyr Pro Ser 370 375 380			1152
agg tat tgt caa aat tat aaa gat gtt aaa aga caa cct gtt tta ata Arg Tyr Cys Gln Asn Tyr Lys Asp Val Lys Arg Gln Pro Val Leu Ile 385 390 395 400			1200
gat tcg ata gat gaa aat tat tta att aaa ata tct gat aaa tat tat Asp Ser Ile Asp Glu Asn Tyr Leu Ile Lys Ile Ser Asp Lys Tyr Tyr 405 410 415			1248
gtg ggt aaa gaa gat act aca agg aca tat caa cac aaa gga act aaa Val Gly Lys Glu Asp Thr Thr Arg Thr Tyr Gln His Lys Gly Thr Lys 420 425 430			1296

aaa ata ttt gat cca tac aaa tac ggt gat gtt tat ata gat gat aat	1344
Lys Ile Phe Asp Pro Tyr Lys Tyr Gly Asp Val Tyr Ile Asp Asp Asn	
435 440 445	
ggg tta ata tat caa tgt tct agt att tat tat tca aat atg gga ttt	1392
Gly Leu Ile Tyr Gln Cys Ser Ser Ile Tyr Tyr Ser Asn Met Gly Phe	
450 455 460	
ttg aat aat ata tat tta gct agt gga gga aaa act tgt tat cct tgt	1440
Leu Asn Asn Ile Tyr Leu Ala Ser Gly Gly Lys Thr Cys Tyr Pro Cys	
465 470 475 480	
tgt tat tca aaa cag aaa aat aga gat gaa ata ttc gaa tct tgc gtt	1488
Cys Tyr Ser Lys Gln Lys Asn Arg Asp Glu Ile Phe Glu Ser Cys Val	
485 490 495	
tat aat aaa gaa att att tta gaa gat aaa ata aat ccc ata ata gtt	1536
Tyr Asn Lys Glu Ile Ile Leu Glu Asp Lys Ile Asn Pro Ile Ile Val	
500 505 510	
aat tat gga aga att ata tta agt aag aat ggt tta tct aaa tta tca	1584
Asn Tyr Gly Arg Ile Ile Leu Ser Lys Asn Gly Leu Ser Lys Leu Ser	
515 520 525	
cct aaa tta aat aat att tta aac gct aat tca aaa ata gat att gtt	1632
Pro Lys Leu Asn Asn Ile Leu Asn Ala Asn Ser Lys Ile Asp Ile Val	
530 535 540	
aaa cat act aat aga ata gat ttt tca gat aat tat aca ata ata atg	1680
Lys His Thr Asn Arg Ile Asp Phe Ser Asp Asn Tyr Thr Ile Ile Met	
545 550 555 560	
tca tat caa cca act att act ata aga aat ttt gat gac atg tat tat	1728
Ser Tyr Gln Pro Thr Ile Thr Ile Arg Asn Phe Asp Asp Met Tyr Tyr	
565 570 575	
ttt att ata aac aat aat gct att gtt att aat gat aat ata gtt tat	1776
Phe Ile Ile Asn Asn Asn Ala Ile Val Ile Asn Asp Asn Ile Val Tyr	
580 585 590	
act gat aaa agt ata tta aaa atg aat aat aat aat ata aat gta ttt	1824
Thr Asp Lys Ser Ile Leu Lys Met Asn Asn Asn Asn Ile Asn Val Phe	
595 600 605	
ata ata ata caa aat aga att cat caa tta aaa aat att gat aaa caa	1872
Ile Ile Ile Gln Asn Arg Ile His Gln Leu Lys Asn Ile Asp Lys Gln	
610 615 620	
tca aaa tat gat gat ata gta gtt aat aaa ata gat gat aaa aaa ata	1920
Ser Lys Tyr Asp Asp Ile Val Val Asn Lys Ile Asp Asp Lys Lys Ile	
625 630 635 640	
aaa ata att aaa aaa tac ttt aat ata ata tcc aat ata cga aat cca	1968
Lys Ile Ile Lys Lys Tyr Phe Asn Ile Ile Ser Asn Ile Arg Asn Pro	
645 650 655	

ata tct aat aat gga att tct ata aca gat gat gtt tgt act ata gat 2016
 Ile Ser Asn Asn Gly Ile Ser Ile Thr Asp Asp Val Cys Thr Ile Asp
 660 665 670

ggt gaa tta ata gaa aat aaa aat att aaa tat ttt tct gaa tat aat 2064
 Gly Glu Leu Ile Glu Asn Lys Asn Ile Lys Tyr Phe Ser Glu Tyr Asn
 675 680 685

aat att tct tta aaa cct aaa agt act agc gaa tat ata gaa aag tat 2112
 Asn Ile Ser Leu Lys Pro Lys Ser Thr Ser Glu Tyr Ile Glu Lys Tyr
 690 695 700

ttt aaa caa tat ttt gat act ata tat act aat aat att aga tta ttt 2160
 Phe Lys Gln Tyr Phe Asp Thr Ile Tyr Thr Asn Asn Ile Arg Leu Phe
 705 710 715 720

ata aaa ata ttt ata acg aaa ata atg cat agt ata aaa gaa aca gac 2208
 Ile Lys Ile Phe Ile Thr Lys Ile Met His Ser Ile Lys Glu Thr Asp
 725 730 735

att ata aaa aca gat tat act aaa tta gaa gaa aaa tta aat aat att 2256
 Ile Ile Lys Thr Asp Tyr Thr Lys Leu Glu Glu Lys Leu Asn Asn Ile
 740 745 750

act aat aaa caa atg tca tct gtt ata ttg tca aaa aaa agt att taa 2304
 Thr Asn Lys Gln Met Ser Ser Val Ile Leu Ser Lys Lys Ser Ile
 755 760 765

<210> 44

<211> 318

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (318)

<223>

<400> 44

atg tta cca aaa tat tgg gga aga gga gcg tgg gtt gtt att ttt aca 48
 Met Leu Pro Lys Tyr Trp Gly Arg Gly Ala Trp Val Val Ile Phe Thr
 1 5 10 15

aga ata tat tat aca att tct act tta aat aaa gaa aat tat ata cat 96
 Arg Ile Tyr Tyr Thr Ile Ser Thr Leu Asn Lys Glu Asn Tyr Ile His
 20 25 30

aat gtt gaa aaa tta aaa tta ata tta tat ttg ata tgt agt aca tta 144
 Asn Val Glu Lys Leu Lys Leu Ile Leu Tyr Leu Ile Cys Ser Thr Leu
 35 40 45

cca tgc gaa aca tgt gca gct gaa gct aaa aaa aaa ata caa aaa aat 192
 Pro Cys Glu Thr Cys Ala Ala Glu Ala Lys Lys Lys Ile Gln Lys Asn
 50 55 60

aat ata atg tct gaa tta aat att aat aga att tta cat ttt tat ata 240
 Asn Ile Met Ser Glu Leu Asn Ile Asn Arg Ile Leu His Phe Tyr Ile
 65 70 75 80

gaa ttt tat aat ata ttt cat aat aat aaa ata gat aga aaa aaa ata 288
 Glu Phe Tyr Asn Ile Phe His Asn Asn Lys Ile Asp Arg Lys Lys Ile
 85 90 95

aaa aca tat gat act ttt aac tat gta taa 318
 Lys Thr Tyr Asp Thr Phe Asn Tyr Val
 100 105

<210> 45

<211> 1703

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(1703)

<223>

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 1 5 10 15

agg cct aat att tat ata aca gaa act aaa aat ggt aaa tat aac ata 96
 Arg Pro Asn Ile Tyr Ile Thr Glu Thr Lys Asn Gly Lys Tyr Asn Ile
 20 25 30

cca caa tat gta tca agt cct tgt acg ttt caa gat ggt tat gca gta 144
 Pro Gln Tyr Val Ser Ser Pro Cys Thr Phe Gln Asp Gly Tyr Ala Val
 35 40 45

gct tct ata aca gat att aaa tta gaa ggc tgt aat aat ttt gga tta 192
 Ala Ser Ile Thr Asp Ile Lys Leu Glu Gly Cys Asn Asn Phe Gly Leu

50	55	60	
aat ata act ttg cct gaa ata aaa ggt ata ggt ggt gtt agg ttt cag			240
Asn Ile Thr Leu Pro Glu Ile Lys Gly Ile Gly Gly Val Arg Phe Gln			
65	70	75	80
aat tat ttc att cct aaa ctt atc gaa gaa tgt att ata gaa act atc			288
Asn Tyr Phe Ile Pro Lys Leu Ile Glu Glu Cys Ile Ile Glu Thr Ile			
	85	90	95
gat gat aat aaa act aac gaa ata att aga aaa act ggg ctt gaa ttt			336
Asp Asp Asn Lys Thr Asn Glu Ile Ile Arg Lys Thr Gly Leu Glu Phe			
	100	105	110
tta atg gat ttt ata cag aag aaa aaa gaa tat tcg aga ttt gta ggc			384
Leu Met Asp Phe Ile Gln Lys Lys Lys Glu Tyr Ser Arg Phe Val Gly			
	115	120	125
aat aat tct gat tta tgt aaa ttt aaa tat ggt aaa gtg ctg atg ata			432
Asn Asn Ser Asp Leu Cys Lys Phe Lys Tyr Gly Lys Val Leu Met Ile			
	130	135	140
tta ttt ttc cat cta aag aag tat att ttc ctc taa tgt tta tat ttg			480
Leu Phe Phe His Leu Lys Lys Tyr Ile Phe Leu Cys Leu Tyr Leu			
	145	150	155
ata atg tta ata tga atc cca gaa ctt gtt tta gat tat tcc ctg aaa			528
Ile Met Leu Ile Ile Pro Glu Leu Val Leu Asp Tyr Ser Leu Lys			
	160	165	170
cta aat tac aaa taa aaa taa aat tta gac cat ttg cag ata ttt tat			576
Leu Asn Tyr Lys Lys Asn Leu Asp His Leu Gln Ile Phe Tyr			
	175	180	185
tac ccg atg taa aat ata aga aaa ata gtc tta aaa ata ttt cag atg			624
Tyr Pro Met Asn Ile Arg Lys Ile Val Leu Lys Ile Phe Gln Met			
	190	195	200
ttg atc tac aac cat ata taa aat tta ctg gtt ata ata cgt gcg gaa			672
Leu Ile Tyr Asn His Ile Asn Leu Leu Val Ile Ile Arg Ala Glu			
	205	210	215
gtc ctt tta aac ata gat ata tag aag aat taa ctt att cta cac aca			720
Val Leu Leu Asn Ile Asp Ile Lys Asn Leu Ile Leu His Thr			
	220	225	230
aaa gta ata aaa aga att att att cac ctg aat ttt tat cta taa cta			768
Lys Val Ile Lys Arg Ile Ile Ile His Leu Asn Phe Tyr Leu Leu			
	235	240	245
atc tat tat ggt att cta aat ctg ata ttt tca gag gaa ata tgt tta			816
Ile Tyr Tyr Gly Ile Leu Asn Leu Ile Phe Ser Glu Glu Ile Cys Leu			
	250	255	260
tat cat atc ccg att atc cag aaa cag aag aaa att tta tca aaa cat			864
Tyr His Ile Pro Ile Ile Gln Lys Gln Lys Lys Ile Leu Ser Lys His			
	265	270	275

acg ttg ata aat tat taa aag atc ttt taa tta ttt ctg atg atg aaa	912
Thr Leu Ile Asn Tyr Lys Ile Phe Leu Phe Leu Met Met Lys	
280 285 290	
act tta tta aat caa aag gat tta gtg ata aat gta agt tta aaa aaa	960
Thr Leu Leu Asn Gln Lys Asp Leu Val Ile Asn Val Ser Leu Lys Lys	
295 300 305	
ttg atc cgt gtg ata aaa ttg tgt ttg atg tta ata ata att gtg aaa	1008
Leu Ile Arg Val Ile Lys Leu Cys Leu Met Leu Ile Ile Ile Val Lys	
310 315 320 325	
tta ata taa tga atg tcc cgg aag gtt ttg att tat att atc ata caa	1056
Leu Ile Met Ser Arg Lys Val Leu Ile Tyr Ile Ile Ile Gln	
330 335	
ata tat tat cat tca gta gaa gaa ata acc caa atg att ata ata ttt	1104
Ile Tyr Tyr His Ser Val Glu Glu Ile Thr Gln Met Ile Ile Ile Phe	
340 345 350 355	
cta aaa aat tta gta aaa tat ctg gaa cat ata tac cta acg aag ata	1152
Leu Lys Asn Leu Val Lys Tyr Leu Glu His Ile Tyr Leu Thr Lys Ile	
360 365 370	
aga ttt taa tac acg aag taa aac ata caa taa aca tat ctg acg tta	1200
Arg Phe Tyr Thr Lys Asn Ile Gln Thr Tyr Leu Thr Leu	
375 380	
gta ttc cat tga gta tat gga atg caa atg aga ata ctt cta cgg gtg	1248
Val Phe His Val Tyr Gly Met Gln Met Arg Ile Leu Leu Arg Val	
385 390 395	
att tga gat cta tta aat cta aaa aat cag ata tat atg taa atg atc	1296
Ile Asp Leu Leu Asn Leu Lys Asn Gln Ile Tyr Met Met Ile	
400 405 410	
ctt ttg ttt ttg gat tag att ttt tat caa aag aat tag gaa tta tta	1344
Leu Leu Phe Leu Asp Ile Phe Tyr Gln Lys Asn Glu Leu Leu	
415 420 425	
gca gat cta taa caa gta gtt cta atg aat caa tag ctg aat ata aca	1392
Ala Asp Leu Gln Val Val Leu Met Asn Gln Leu Asn Ile Thr	
430 435 440	
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Val Ile Pro Ile Leu Asn His Ile Phe Asn Leu Ile Ile Tyr Leu	
445 450 455	
cag tta cgc caa cat cag aat att caa acc cag caa tat ttt tac ata	1488
Gln Leu Arg Gln His Gln Asn Ile Gln Thr Gln Gln Tyr Phe Tyr Ile	
460 465 470	
gat tta atc ttc ata ata taa ttt tta ttg aac cat cta gat taa tag	1536
Asp Leu Ile Phe Ile Ile Phe Leu Leu Asn His Leu Asp	
475 480 485	

ccg atg ctg cta aaa att tta gat gcg tta att taa gta tag att gga 1584
 Pro Met Leu Leu Lys Ile Leu Asp Ala Leu Ile Val Ile Gly
 490 495

aag aat ttc ctg aag tag atc caa gaa gtt tat tta aca aag aat tac 1632
 Lys Asn Phe Leu Lys Ile Gln Glu Val Tyr Leu Thr Lys Asn Tyr
 500 505 510

aaa ttt gtc aaa cta ttg tta aaa aaa tat cat atg ata ata ata tta 1680
 Lys Phe Val Lys Leu Leu Leu Lys Lys Tyr His Met Ile Ile Ile Leu
 515 520 525 530

taa ccg ttc ata ttc tag agt aa 1703
 Pro Phe Ile Phe Ser
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<210> 46

<211> 2619

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(2619)

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agt aat att aat ttt gat agt aat cca aat gtt aat aat gaa ata gaa 96
 Ser Asn Ile Asn Phe Asp Ser Asn Pro Asn Val Asn Asn Glu Ile Glu
 20 25 30

ttt aca tac ata aat cca gat tta aga att tta tct aat att tat act 144
 Phe Thr Tyr Ile Asn Pro Asp Leu Arg Ile Leu Ser Asn Ile Tyr Thr
 35 40 45

gat aat aat gaa tct aaa aaa aaa aca tat tta gaa tat gta ctt aaa 192
 Asp Asn Asn Glu Ser Lys Lys Lys Thr Tyr Leu Glu Tyr Val Leu Lys
 50 55 60

ttt gct aac aaa aag tct aaa tta aga caa aaa tat aaa tat gat tat 240
 Phe Ala Asn Lys Lys Ser Lys Leu Arg Gln Lys Tyr Lys Tyr Asp Tyr
 65 70 75 80

cct act ttt gaa ata gca aat tca tat ttt tta gat aaa ctt act aat	288
Pro Thr Phe Glu Ile Ala Asn Ser Tyr Phe Leu Asp Lys Leu Thr Asn	
85 90 95	
aat tgg gaa aga aaa act ata ata tca gaa gat aaa ata aat att aat	336
Asn Trp Glu Arg Lys Thr Ile Ile Ser Glu Asp Lys Ile Asn Ile Asn	
100 105 110	
aaa aat gaa tat att tta ttg aga cat aat act gaa tat caa gat aat	384
Lys Asn Glu Tyr Ile Leu Leu Arg His Asn Thr Glu Tyr Gln Asp Asn	
115 120 125	
gat ata gaa tta ccg tta tta aat gat ata ttg gat aaa ata aat gta	432
Asp Ile Glu Leu Pro Leu Leu Asn Asp Ile Leu Asp Lys Ile Asn Val	
130 135 140	
tta ttt gtt tcg caa tta tat ata att ata aat gat tta ata aaa gtt	480
Leu Phe Val Ser Gln Leu Tyr Ile Ile Ile Asn Asp Leu Ile Lys Val	
145 150 155 160	
gaa ttt aaa ata aaa tca aac att gga cca tta tcg tca aat aaa tta	528
Glu Phe Lys Ile Lys Ser Asn Ile Gly Pro Leu Ser Ser Asn Lys Leu	
165 170 175	
tta tta agt aca cat ttc aat gat ata gaa aca tat aga aaa aat ata	576
Leu Leu Ser Thr His Phe Asn Asp Ile Glu Thr Tyr Arg Lys Asn Ile	
180 185 190	
aca tat tat tta gaa ata gaa gta cta tct aaa aca aaa ttg gat aat	624
Thr Tyr Tyr Leu Glu Ile Glu Val Leu Ser Lys Thr Lys Leu Asp Asn	
195 200 205	
aat gta ctt tat gat aat tta gta aaa tct ttt gaa tat ata tat aaa	672
Asn Val Leu Tyr Asp Asn Leu Val Lys Ser Phe Glu Tyr Ile Tyr Lys	
210 215 220	
agc aaa aat ata tct aat ata agt tta gtt aca ata aaa aat aaa cct	720
Ser Lys Asn Ile Ser Asn Ile Ser Leu Val Thr Ile Lys Asn Lys Pro	
225 230 235 240	
aaa ata aaa aca cat atg ata caa tat aat aaa tta aat aca att gat	768
Lys Ile Lys Thr His Met Ile Gln Tyr Asn Lys Leu Asn Thr Ile Asp	
245 250 255	
aaa gaa tca tat att atg gct att aaa att gat gga gat gtt gta gaa	816
Lys Glu Ser Tyr Ile Met Ala Ile Lys Ile Asp Gly Asp Val Val Glu	
260 265 270	
ttt aat gtt atg aat gga att tgt aat atc ata ata tat gat atg gta	864
Phe Asn Val Met Asn Gly Ile Cys Asn Ile Ile Ile Tyr Asp Met Val	
275 280 285	
tat aaa aat ttt tca tgt aac ata gat aaa aat ata caa atg ata ggt	912
Tyr Lys Asn Phe Ser Cys Asn Ile Asp Lys Asn Ile Gln Met Ile Gly	
290 295 300	

atg gga gaa tac att aag gta gat aat gtt aaa aaa ata tat cca ttt	960
Met Gly Glu Tyr Ile Lys Val Asp Asn Val Lys Lys Ile Tyr Pro Phe	
305 310 315 320	
tat ttt tca aaa tta tct tat aat aat aaa aaa ata ata aat aat att	1008
Tyr Phe Ser Lys Leu Ser Tyr Asn Asn Lys Lys Ile Ile Asn Asn Ile	
325 330 335	
cta gat aga tat aag caa ata caa tat tat aat gat aat tta ttg tgt	1056
Leu Asp Arg Tyr Lys Gln Ile Gln Tyr Tyr Asn Asp Asn Leu Leu Cys	
340 345 350	
cat aaa cca aat atg caa att aaa ttt gaa aac aaa tta act tta aaa	1104
His Lys Pro Asn Met Gln Ile Lys Phe Glu Asn Lys Leu Thr Leu Lys	
355 360 365	
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Phe Asp Glu Asn Asn Val Thr Thr Asn Val Leu Lys Phe Tyr Lys Ser	
370 375 380	
ata gaa aat agt tca ttt aaa aat ata tac gat ggt att gta tta cta	1200
Ile Glu Asn Ser Ser Phe Lys Asn Ile Tyr Asp Gly Ile Val Leu Leu	
385 390 395 400	
gat att aca gat aat gat tct aaa aaa gat tat aaa ttt aaa ata gat	1248
Asp Ile Thr Asp Asn Asp Ser Lys Lys Asp Tyr Lys Phe Lys Ile Asp	
405 410 415	
aat act gta gat gtt ata tgt aaa ttg gac act tat aga gga aca tat	1296
Asn Thr Val Asp Val Ile Cys Lys Leu Asp Thr Tyr Arg Gly Thr Tyr	
420 425 430	
ata tta cac aat gat aat aaa tta tat ata act ttt aca tta tat caa	1344
Ile Leu His Asn Asp Asn Lys Leu Tyr Ile Thr Phe Thr Leu Tyr Gln	
435 440 445	
tat gat aat aaa aat ttt aca gaa att tta aaa tac gaa gaa aag aac	1392
Tyr Asp Asn Lys Asn Phe Thr Glu Ile Leu Lys Tyr Glu Glu Lys Asn	
450 455 460	
gaa att ata gaa tat aat aat tat gtt aac tta tta att ttt aat aat	1440
Glu Ile Ile Glu Tyr Asn Asn Tyr Val Asn Leu Leu Ile Phe Asn Asn	
465 470 475 480	
aat aat aaa ttt ggt cct aaa aaa atg tta tcg ccc ata tgg tgt att	1488
Asn Asn Lys Phe Gly Pro Lys Lys Met Leu Ser Pro Ile Trp Cys Ile	
485 490 495	
gta gaa tat tca ttt tta gaa tct aaa att att gga tta aga atc gat	1536
Val Glu Tyr Ser Phe Leu Glu Ser Lys Ile Ile Gly Leu Arg Ile Asp	
500 505 510	
aaa act aat aat ttc tat aga caa aat tat aat ggc aat aat cta gat	1584
Lys Thr Asn Asn Phe Tyr Arg Gln Asn Tyr Asn Gly Asn Asn Leu Asp	
515 520 525	
gtt ata tta aca tcc aaa cac att cac gaa gaa ttt cca tca aat tat	1632

Val	Ile	Leu	Thr	Ser	Lys	His	Ile	His	Glu	Glu	Phe	Pro	Ser	Asn	Tyr		
530						535					540						
aat	att	gat	tat	tta	atg	tct	tta	aat	gaa	act	ata	aat	gta	ata	gat	1680	
Asn	Ile	Asp	Tyr	Leu	Met	Ser	Leu	Asn	Glu	Thr	Ile	Asn	Val	Ile	Asp		
545					550					555					560		
aat	aat	cca	cac	aga	tcc	aaa	tta	tta	tta	aat	aaa	gaa	gtt	aat	aaa	1728	
Asn	Asn	Pro	His	Arg	Ser	Lys	Leu	Leu	Leu	Asn	Lys	Glu	Val	Asn	Lys		
				565						570					575		
tat	ttt	atg	aat	aat	act	att	aga	aca	tct	ata	aat	ata	tta	aca	aat	1776	
Tyr	Phe	Met	Asn	Asn	Thr	Ile	Arg	Thr	Ser	Ile	Asn	Ile	Leu	Thr	Asn		
				580						585					590		
tat	tta	aaa	act	aat	ggg	ata	tcg	atg	gct	ata	tca	aaa	tta	gta	aca	1824	
Tyr	Leu	Lys	Thr	Asn	Gly	Ile	Ser	Met	Ala	Ile	Ser	Lys	Leu	Val	Thr		
		595						600				605					
act	tta	cca	aat	aga	tat	gtt	tta	agt	ata	gat	ata	gga	aga	gga	gga	1872	
Thr	Leu	Pro	Asn	Arg	Tyr	Val	Leu	Ser	Ile	Asp	Ile	Gly	Arg	Gly	Gly		
		610					615					620					
gat	tta	act	aaa	tat	tat	tat	gtc	gga	ata	aca	gga	atg	tta	gga	aca	1920	
Asp	Leu	Thr	Lys	Tyr	Tyr	Tyr	Val	Gly	Ile	Thr	Gly	Met	Leu	Gly	Thr		
625						630				635					640		
gat	cct	gat	att	ttt	gct	ata	aaa	gaa	gca	aga	gat	aga	tat	aaa	aaa	1968	
Asp	Pro	Asp	Ile	Phe	Ala	Ile	Lys	Glu	Ala	Arg	Asp	Arg	Tyr	Lys	Lys		
				645						650					655		
tta	caa	act	ata	tca	aat	gcc	caa	gct	agt	ata	tat	aaa	ttt	gat	agt	2016	
Leu	Gln	Thr	Ile	Ser	Asn	Ala	Gln	Ala	Ser	Ile	Tyr	Lys	Phe	Asp	Ser		
				660					665					670			
ttg	aac	atg	tct	ata	tta	aat	gat	aat	tat	gaa	aat	gaa	ata	aaa	aat	2064	
Leu	Asn	Met	Ser	Ile	Leu	Asn	Asp	Asn	Tyr	Glu	Asn	Glu	Ile	Lys	Asn		
		675						680						685			
aaa	ttt	atg	aca	cat	cac	aaa	ata	caa	tat	ttt	gga	gtt	ata	gag	tg	2112	
Lys	Phe	Met	Thr	His	His	Lys	Ile	Gln	Tyr	Phe	Gly	Val	Ile	Glu	Trp		
		690					695				700						
caa	tta	gct	att	cat	tat	tct	tac	aat	aac	aat	aca	aaa	gat	atg	ata	2160	
Gln	Leu	Ala	Ile	His	Tyr	Ser	Tyr	Asn	Asn	Asn	Thr	Lys	Asp	Met	Ile		
705						710					715				720		
tta	tta	aaa	cta	aaa	aat	tta	tca	aac	gat	gga	aca	aaa	gta	ata	ata	2208	
Leu	Leu	Lys	Leu	Lys	Asn	Leu	Ser	Asn	Asp	Gly	Thr	Lys	Val	Ile	Ile		
				725						730					735		
act	tgt	ctt	gac	gga	gac	gaa	ata	aca	aat	aga	tta	aat	gaa	aat	cct	2256	
Thr	Cys	Leu	Asp	Gly	Asp	Glu	Ile	Thr	Asn	Arg	Leu	Asn	Glu	Asn	Pro		
			740						745					750			
aat	tta	att	tat	aat	att	caa	ccc	gga	att	aca	tat	aaa	att	tct	aaa	2304	
Asn	Leu	Ile	Tyr	Asn	Ile	Gln	Pro	Gly	Ile	Thr	Tyr	Lys	Ile	Ser	Lys		

755	760	765	
att tca gat gat aaa ata tca gtt tta tat aat gct aca atg act gaa			2352
Ile Ser Asp Asp Lys Ile Ser Val Leu Tyr Asn Ala Thr Met Thr Glu			
770	775	780	
tgg tta gaa gaa tat ata ata aca gat aaa ata att gat gat ttt gct			2400
Trp Leu Glu Glu Tyr Ile Ile Thr Asp Lys Ile Ile Asp Asp Phe Ala			
785	790	795	800
atg tat aat ttt ata tta tca gat gtt tgt aaa ttt gat gat ata ttt			2448
Met Tyr Asn Phe Ile Leu Ser Asp Val Cys Lys Phe Asp Asp Ile Phe			
	805	810	815
aaa tat aat tct gat aaa tct gta gaa gtt tta tct aat ttt tta aga			2496
Lys Tyr Asn Ser Asp Lys Ser Val Glu Val Leu Ser Asn Phe Leu Arg			
	820	825	830
aaa tca act aaa aag ttt tat aat gat att aaa aat gat aaa aat ata			2544
Lys Ser Thr Lys Lys Phe Tyr Asn Asp Ile Lys Asn Asp Lys Asn Ile			
	835	840	845
tat aac aat gat gat att aaa aaa ata atg tcg tta ttt aaa gtt tat			2592
Tyr Asn Asn Asp Asp Ile Lys Lys Ile Met Ser Leu Phe Lys Val Tyr			
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act ttt gtt tat tca tct tgt aaa taa			2619
Thr Phe Val Tyr Ser Ser Cys Lys			
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<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

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<223>

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	10
	15

att cgt aat tta cca ttt aga aat tta att gat tcg atg aaa gaa aat	96
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Ile Arg Asn Leu Pro Phe Arg Asn Leu Ile Asp Ser Met Lys Glu Asn	
20 25 30	
att att att aat aat gaa aca tat aaa ata gaa gaa tta ttt aaa tat	144
Ile Ile Ile Asn Asn Glu Thr Tyr Lys Ile Glu Glu Leu Phe Lys Tyr	
35 40 45	
att tat tat cat cca cta gat tta tta aca att aga gac att agt aat	192
Ile Tyr Tyr His Pro Leu Asp Leu Leu Thr Ile Arg Asp Ile Ser Asn	
50 55 60	
gca gat aga aaa gat gaa tat gtt aaa caa ttt gta aat aat tta tat	240
Ala Asp Arg Lys Asp Glu Tyr Val Lys Gln Phe Val Asn Asn Leu Tyr	
65 70 75 80	
ctt aga tat gca tat aac gaa atg gat ttt ata aaa aat aat ata aga	288
Leu Arg Tyr Ala Tyr Asn Glu Met Asp Phe Ile Lys Asn Asn Ile Arg	
85 90 95	
tat gac gat aaa gta tat tct att ata aac gaa att aat tat ttt cca	336
Tyr Asp Asp Lys Val Tyr Ser Ile Ile Asn Glu Ile Asn Tyr Phe Pro	
100 105 110	
gaa cat act tcg gaa ttt tta aaa tat aga tta tca cac tat gaa tca	384
Glu His Thr Ser Glu Phe Leu Lys Tyr Arg Leu Ser His Tyr Glu Ser	
115 120 125	
gaa tca aga atc aga gga gga aga gta gta act ttt agc ggt gtt cct	432
Glu Ser Arg Ile Arg Gly Gly Arg Val Val Thr Phe Ser Gly Val Pro	
130 135 140	
gat aat ggt tat ggt tat tta tta agt caa tca gac cct tca tct aag	480
Asp Asn Gly Tyr Gly Tyr Leu Leu Ser Gln Ser Asp Pro Ser Ser Lys	
145 150 155 160	
tat ata tgg gca ata gta gat aac tat tta atg att gat aat gaa gat	528
Tyr Ile Trp Ala Ile Val Asp Asn Tyr Leu Met Ile Asp Asn Glu Asp	
165 170 175	
aaa ttt gat ttt tat acc caa tat att cca ttt att aat tat ttt cta	576
Lys Phe Asp Phe Tyr Thr Gln Tyr Ile Pro Phe Ile Asn Tyr Phe Leu	
180 185 190	
aaa tta tat tat aat aac atc aca aaa aaa tat att att tta gat cct	624
Lys Leu Tyr Tyr Asn Asn Ile Thr Lys Lys Tyr Ile Ile Leu Asp Pro	
195 200 205	
agt aat cct gaa gaa aat aaa gat gta cct aac gct aat tta atc gac	672
Ser Asn Pro Glu Glu Asn Lys Asp Val Pro Asn Ala Asn Leu Ile Asp	
210 215 220	
gaa agt tta aaa aat aaa tat aat aat ttt aca aag aaa tta tca tat	720
Glu Ser Leu Lys Asn Lys Tyr Asn Asn Phe Thr Lys Lys Leu Ser Tyr	
225 230 235 240	
ttt gat ata tca aat agt aga tat aat tct ata aat gat gtg ggt gat	768
Phe Asp Ile Ser Asn Ser Arg Tyr Asn Ser Ile Asn Asp Val Gly Asp	

245	250	255	
ttt aat aat tat tta gat atc aat act aat aaa aat att att gaa aat			816
Phe Asn Asn Tyr Leu Asp Ile Asn Thr Asn Lys Asn Ile Ile Glu Asn			
260	265	270	
tat gat gta att att aat aat att ata aaa tca ata tat cta tat aac			864
Tyr Asp Val Ile Ile Asn Asn Ile Ile Lys Ser Ile Tyr Leu Tyr Asn			
275	280	285	
ata atg gat aca aat gta gaa gat ata tta aat ata ata atg aac gat			912
Ile Met Asp Thr Asn Val Glu Asp Ile Leu Asn Ile Ile Met Asn Asp			
290	295	300	
aca aat tat tta tta ttg aat gaa ata tat agt gaa tat tta cca aac			960
Thr Asn Tyr Leu Leu Leu Asn Glu Ile Tyr Ser Glu Tyr Leu Pro Asn			
305	310	315	320
tca agc aaa tta tat gtt tta gtg gga tta cgt cgc att ata tat gaa			1008
Ser Ser Lys Leu Tyr Val Leu Val Gly Leu Arg Arg Ile Ile Tyr Glu			
325	330	335	
aaa agc aaa caa aat aaa aat att agc aat tta tat atg tta gat tca			1056
Lys Ser Lys Gln Asn Lys Asn Ile Ser Asn Leu Tyr Met Leu Asp Ser			
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Phe Val Ser Ile Leu Leu Tyr Leu Leu Glu Arg Tyr Tyr Glu Asn Asp			
355	360	365	
ata acc aca ctt aat gaa tct aaa aga tta ata aaa caa tat tat aaa			1152
Ile Thr Thr Leu Asn Glu Ser Lys Arg Leu Ile Lys Gln Tyr Tyr Lys			
370	375	380	
gat aat tta aat tca aaa aat agc gtt aat ttg gat tct ata aat att			1200
Asp Asn Leu Asn Ser Lys Asn Ser Val Asn Leu Asp Ser Ile Asn Ile			
385	390	395	400
att aaa gaa aat atc aat aat aat att att aat ata aca tta gat gaa			1248
Ile Lys Glu Asn Ile Asn Asn Asn Ile Ile Asn Ile Thr Leu Asp Glu			
405	410	415	
gat gaa caa tca aga tat aat tta ata ata gcc aca aac cca gaa ata			1296
Asp Glu Gln Ser Arg Tyr Asn Leu Ile Ile Ala Thr Asn Pro Glu Ile			
420	425	430	
ata gta aat tat gca agt aga aat tat ttt aac atc agt agt aac gaa			1344
Ile Val Asn Tyr Ala Ser Arg Asn Tyr Phe Asn Ile Ser Ser Asn Glu			
435	440	445	
gat aac aca tca aat gtg tat aaa aaa gca atg gca ttt ttc ata aat			1392
Asp Asn Thr Ser Asn Val Tyr Lys Lys Ala Met Ala Phe Phe Ile Asn			
450	455	460	
aat ttt att gaa aat aat ata act aac gaa aat ata ata aat aat tta			1440
Asn Phe Ile Glu Asn Asn Ile Thr Asn Glu Asn Ile Ile Asn Asn Leu			
465	470	475	480

tca caa gtt tat act caa aat aca gat ttt att aat att act tat gat	1488
Ser Gln Val Tyr Thr Gln Asn Thr Asp Phe Ile Asn Ile Thr Tyr Asp	
485 490 495	
gat cta aat aat tta aaa ata aaa tat att aat aat tat aat ata aat	1536
Asp Leu Asn Asn Leu Lys Ile Lys Tyr Ile Asn Asn Tyr Asn Ile Asn	
500 505 510	
tta gat att aaa aaa att att aat gac aat cta gaa ata att aga att	1584
Leu Asp Ile Lys Lys Ile Ile Asn Asp Asn Leu Glu Ile Ile Arg Ile	
515 520 525	
tat aaa gat aat gtt tta tat gac act aat att aaa atg aat tat aaa	1632
Tyr Lys Asp Asn Val Leu Tyr Asp Thr Asn Ile Lys Met Asn Tyr Lys	
530 535 540	
tca ttt ata tca cta tta ccc acc ata tac tat att att ttt tat aat	1680
Ser Phe Ile Ser Leu Leu Pro Thr Ile Tyr Tyr Ile Ile Phe Tyr Asn	
545 550 555 560	
caa cct ata aat aga aaa ata tat aga aaa gct ata att caa gaa cct	1728
Gln Pro Ile Asn Arg Lys Ile Tyr Arg Lys Ala Ile Ile Gln Glu Pro	
565 570 575	
cca att gaa gaa gag atc tca act gaa act aca aaa aga gct aga aga	1776
Pro Ile Glu Glu Glu Ile Ser Thr Glu Thr Thr Lys Arg Ala Arg Arg	
580 585 590	
gtg aga ttt aat cca ttt aat gtc gaa gaa aca ata ata gaa ccc aag	1824
Val Arg Phe Asn Pro Phe Asn Val Glu Glu Thr Ile Ile Glu Pro Lys	
595 600 605	
agt gtt ttt gtt aat aaa agt aaa aat tat tta tat gat aca tta ttt	1872
Ser Val Phe Val Asn Lys Ser Lys Asn Tyr Leu Tyr Asp Thr Leu Phe	
610 615 620	
tgg tct ggc ata tct ata gat gat ttt aat aaa ttt cca tta tac att	1920
Trp Ser Gly Ile Ser Ile Asp Asp Phe Asn Lys Phe Pro Leu Tyr Ile	
625 630 635 640	
aaa act att atc ttg gat agt tgt ctt att tta gga aga caa ata aac	1968
Lys Thr Ile Ile Leu Asp Ser Cys Leu Ile Leu Gly Arg Gln Ile Asn	
645 650 655	
gat gat ggg tca tct act tgc gtt tta tat cat gat att aat aat aac	2016
Asp Asp Gly Ser Ser Thr Cys Val Leu Tyr His Asp Ile Asn Asn Asn	
660 665 670	
gat gtt aca aaa ata tgt ata ata cct tat cct tat aca gca aac aga	2064
Asp Val Thr Lys Ile Cys Ile Ile Pro Tyr Pro Tyr Thr Ala Asn Arg	
675 680 685	
act atg tat gat gtt ttt aaa caa gtt tca gat aaa tta aga tct atg	2112
Thr Met Tyr Asp Val Phe Lys Gln Val Ser Asp Lys Leu Arg Ser Met	
690 695 700	

tac tca tat cct gta aat tat aat ata aat aat aat gaa aaa cat tta	2160
Tyr Ser Tyr Pro Val Asn Tyr Asn Ile Asn Asn Asn Glu Lys His Leu	
705 710 715 720	
aat tta tca aaa aaa gga aat tat aaa ttt atg aat aaa cta gca gaa	2208
Asn Leu Ser Lys Lys Gly Asn Tyr Lys Phe Met Asn Lys Leu Ala Glu	
725 730 735	
tgt aaa gat att aaa gat tta ata caa ttt tat gtt atg gta aga gat	2256
Cys Lys Asp Ile Lys Asp Leu Ile Gln Phe Tyr Val Met Val Arg Asp	
740 745 750	
aca gat cca ggt cat tct gaa ata tca ata cca cca aac caa gaa tta	2304
Thr Asp Pro Gly His Ser Glu Ile Ser Ile Pro Pro Asn Gln Glu Leu	
755 760 765	
tat tta gca ata act tta tta gat tta ttg gga ttt tct cct act tta	2352
Tyr Leu Ala Ile Thr Leu Leu Asp Leu Leu Gly Phe Ser Pro Thr Leu	
770 775 780	
tca aga aga aat act agt att ggt ttt tca tat tac att caa aca gat	2400
Ser Arg Arg Asn Thr Ser Ile Gly Phe Ser Tyr Tyr Ile Gln Thr Asp	
785 790 795 800	
aga caa gta tct gct cgt aat ttg ata tat ata tta tca aga aac tac	2448
Arg Gln Val Ser Ala Arg Asn Leu Ile Tyr Ile Leu Ser Arg Asn Tyr	
805 810 815	
cca gat atg gta aaa agt aag gaa tta tca gat gta gta att aat ata	2496
Pro Asp Met Val Lys Ser Lys Glu Leu Ser Asp Val Val Ile Asn Ile	
820 825 830	
ttg tcg cca ata ctt gca tat tta aga tat gta tta aat tat tat aga	2544
Leu Ser Pro Ile Leu Ala Tyr Leu Arg Tyr Val Leu Asn Tyr Tyr Arg	
835 840 845	
aca aat aat aca aca tta aca gct gga tct aat aat gca ggt cat gat	2592
Thr Asn Asn Thr Thr Leu Thr Ala Gly Ser Asn Asn Ala Gly His Asp	
850 855 860	
tgt tgt att cct att aaa tca aat cct tta gat tta ctt att aat ata	2640
Cys Cys Ile Pro Ile Lys Ser Asn Pro Leu Asp Leu Leu Ile Asn Ile	
865 870 875 880	
gat aca tct ttt act gat tcc gac aat ata tta gat ata atg aat aga	2688
Asp Thr Ser Phe Thr Asp Ser Asp Asn Ile Leu Asp Ile Met Asn Arg	
885 890 895	
gat atg ttt aat ttg gat aat gat ata ttt aga caa gta ata caa aat	2736
Asp Met Phe Asn Leu Asp Asn Asp Ile Phe Arg Gln Val Ile Gln Asn	
900 905 910	
aat att tat agc gct ggt agc gtt gat att gtc gat att ata act gat	2784
Asn Ile Tyr Ser Ala Gly Ser Val Asp Ile Val Asp Ile Ile Thr Asp	
915 920 925	
aat att ccc caa aac att tat atg aaa aca aac ata att gat aaa atg	2832

Asn Ile Pro Gln Asn Ile Tyr Met Lys Thr Asn Ile Ile Asp Lys Met	
930 935 940	
tat gat aaa att ttt gct ggt gaa agt att agc gat ata ttg gat ata	2880
Tyr Asp Lys Ile Phe Ala Gly Glu Ser Ile Ser Asp Ile Leu Asp Ile	
945 950 955 960	
cag ttt gat gaa gat att aat gat aat ttt aat tac aat gat gta aat	2928
Gln Phe Asp Glu Asp Ile Asn Asp Asn Phe Asn Tyr Asn Asp Val Asn	
965 970 975	
atg att act aat gat tta atg aaa aaa cta aga aaa tta tta aaa aaa	2976
Met Ile Thr Asn Asp Leu Met Lys Lys Leu Arg Lys Leu Leu Lys Lys	
980 985 990	
aca act att aat aat tta gaa gac aat gct atg ata tta aag tca caa	3024
Thr Thr Ile Asn Asn Leu Glu Asp Asn Ala Met Ile Leu Lys Ser Gln	
995 1000 1005	
atg tta tca tct att aat aat gtt ttt aat cgt tat tct tgt atg	3069
Met Leu Ser Ser Ile Asn Asn Val Phe Asn Arg Tyr Ser Cys Met	
1010 1015 1020	
gaa aaa ata cca aca caa tat ctt ata aat att aga aca tta tta	3114
Glu Lys Ile Pro Thr Gln Tyr Leu Ile Asn Ile Arg Thr Leu Leu	
1025 1030 1035	
aaa caa tat agt aat gaa aat ata aaa att gac gaa gat tta aaa	3159
Lys Gln Tyr Ser Asn Glu Asn Ile Lys Ile Asp Glu Asp Leu Lys	
1040 1045 1050	
aat aat atc caa aca ata att agt aat atc cat agt aat act aaa	3204
Asn Asn Ile Gln Thr Ile Ile Ser Asn Ile His Ser Asn Thr Lys	
1055 1060 1065	
gat ata att aaa att att acc act tta agt gct ggt att gat tta	3249
Asp Ile Ile Lys Ile Ile Thr Thr Leu Ser Ala Gly Ile Asp Leu	
1070 1075 1080	
gtt aga gca tta aaa aga tct aat gca aat gta gaa aat aaa aca	3294
Val Arg Ala Leu Lys Arg Ser Asn Ala Asn Val Glu Asn Lys Thr	
1085 1090 1095	
ata aat ctt gaa ttt cta aaa aaa tta tgt gat att tgt aaa gat	3339
Ile Asn Leu Glu Phe Leu Lys Lys Leu Cys Asp Ile Cys Lys Asp	
1100 1105 1110	
agt ttt tat aaa tat aat aga aat aat gat ata gta tat aaa aat	3384
Ser Phe Tyr Lys Tyr Asn Arg Asn Asn Asp Ile Val Tyr Lys Asn	
1115 1120 1125	
tta cta aaa gat gta ttt aat aat gat aat gaa att aat aat gat	3429
Leu Leu Lys Asp Val Phe Asn Asn Asp Asn Glu Ile Asn Asn Asp	
1130 1135 1140	
agt gtg ttt gat aca tgt taa	3450
Ser Val Phe Asp Thr Cys	

1145

<210> 48

<211> 2007

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (2007)

<223>

<400> 48

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Met	Asn	Val	Phe	Glu	Met	Asp	Ser	Ile	Asn	Ile	Ser	Asn	Arg	Asn	Tyr	
1				5				10				15				

tta	ata	gca	ggt	gta	aca	tct	gat	aat	att	tgt	aat	tgt	ggt	aat	gat	96
Leu	Ile	Ala	Gly	Val	Thr	Ser	Asp	Asn	Ile	Cys	Asn	Cys	Val	Asn	Asp	
			20					25				30				

agt	gct	atg	gat	gat	tat	tta	ttt	gat	aca	tta	tct	gta	gat	aga	tta	144
Ser	Ala	Met	Asp	Asp	Tyr	Leu	Phe	Asp	Thr	Leu	Ser	Val	Asp	Arg	Leu	
		35					40					45				

gat	ggc	gga	tat	ata	aaa	cac	gaa	tgt	ggt	ata	gaa	tgt	ggg	tgt	ttt	192
Asp	Gly	Gly	Tyr	Ile	Lys	His	Glu	Cys	Gly	Ile	Glu	Cys	Gly	Cys	Phe	
	50					55				60						

aat	ggt	aaa	tta	atg	gct	agt	atg	gcg	aca	gaa	atg	tca	aga	gat	aat	240
Asn	Gly	Lys	Leu	Met	Ala	Ser	Met	Ala	Thr	Glu	Met	Ser	Arg	Asp	Asn	
65					70				75					80		

tta	ata	gca	tcg	tgt	tct	aaa	agt	gca	gga	gct	tct	aat	gta	aaa	tca	288
Leu	Ile	Ala	Ser	Cys	Ser	Lys	Ser	Ala	Gly	Ala	Ser	Asn	Val	Lys	Ser	
			85					90					95			

tct	aat	aat	caa	aat	caa	aaa	aaa	aga	aaa	tca	gaa	tct	ggt	aat	aaa	336
Ser	Asn	Asn	Gln	Asn	Gln	Lys	Lys	Arg	Lys	Ser	Glu	Ser	Gly	Asn	Lys	
			100					105					110			

att	caa	aaa	caa	tta	gat	att	atg	aac	aca	aaa	gaa	gat	cat	att	aag	384
Ile	Gln	Lys	Gln	Leu	Asp	Ile	Met	Asn	Thr	Lys	Glu	Asp	His	Ile	Lys	
		115					120					125				

aaa	att	gct	gaa	tat	gta	gct	aat	aat	tta	cca	aaa	tca	cct	tta	aca	432
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Lys	Ile	Ala	Glu	Tyr	Val	Ala	Asn	Asn	Leu	Pro	Lys	Ser	Pro	Leu	Thr		
130						135					140						
tat	aca	gtt	cac	gac	att	aat	aga	tta	att	atc	aca	tct	cct	ttt	aag	480	
Tyr	Thr	Val	His	Asp	Ile	Asn	Arg	Leu	Ile	Ile	Thr	Ser	Pro	Phe	Lys		
145					150				155						160		
gat	gtt	att	tta	aac	gaa	aat	gat	atg	aaa	tct	ata	atc	gga	ttg	gct	528	
Asp	Val	Ile	Leu	Asn	Glu	Asn	Asp	Met	Lys	Ser	Ile	Ile	Gly	Leu	Ala		
				165					170					175			
gca	gct	ttt	tat	aaa	aat	aaa	aca	ata	aat	cat	tca	tta	tta	tca	act	576	
Ala	Ala	Phe	Tyr	Lys	Asn	Lys	Thr	Ile	Asn	His	Ser	Leu	Leu	Ser	Thr		
			180					185					190				
att	aat	att	aat	aca	aat	gat	ctt	att	caa	caa	tta	aga	caa	gta	tat	624	
Ile	Asn	Ile	Asn	Thr	Asn	Asp	Leu	Ile	Gln	Gln	Leu	Arg	Gln	Val	Tyr		
		195					200					205					
aat	tta	tca	aca	tta	gta	gat	tat	gat	tca	ttt	tta	aat	aat	tta	aaa	672	
Asn	Leu	Ser	Thr	Leu	Val	Asp	Tyr	Asp	Ser	Phe	Leu	Asn	Asn	Leu	Lys		
	210					215					220						
gta	gcc	agt	gtg	gaa	tat	act	gat	att	gca	gat	tgt	aat	gat	tac	att	720	
Val	Ala	Ser	Val	Glu	Tyr	Thr	Asp	Ile	Ala	Asp	Cys	Asn	Asp	Tyr	Ile		
225					230				235						240		
aaa	tat	gtg	cca	gac	gaa	cct	aat	gtt	cca	tca	ata	tta	ttt	gct	tta	768	
Lys	Tyr	Val	Pro	Asp	Glu	Pro	Asn	Val	Pro	Ser	Ile	Leu	Phe	Ala	Leu		
				245					250					255			
ttt	tct	aca	aga	ata	cct	gta	tta	ttt	gat	att	gtt	gta	aat	caa	gat	816	
Phe	Ser	Thr	Arg	Ile	Pro	Val	Leu	Phe	Asp	Ile	Val	Val	Asn	Gln	Asp		
			260					265					270				
tta	ttt	aaa	tta	caa	caa	gag	tta	cag	aca	gat	gat	tat	agc	gca	tat	864	
Leu	Phe	Lys	Leu	Gln	Gln	Glu	Leu	Gln	Thr	Asp	Asp	Tyr	Ser	Ala	Tyr		
		275					280					285					
aaa	aat	ata	tat	cta	ttg	ctt	ttt	aga	tta	tct	gat	aga	gaa	cca	tac	912	
Lys	Asn	Ile	Tyr	Leu	Leu	Leu	Phe	Arg	Leu	Ser	Asp	Arg	Glu	Pro	Tyr		
	290					295					300						
tat	tca	aat	caa	tct	gga	gga	ctt	agt	aat	aaa	att	gat	gtt	tat	act	960	
Tyr	Ser	Asn	Gln	Ser	Gly	Gly	Leu	Ser	Asn	Lys	Ile	Asp	Val	Tyr	Thr		
305					310					315					320		
gaa	tta	agt	cgt	ata	tta	tta	tct	atg	tcg	att	aaa	aga	tta	ata	tta	1008	
Glu	Leu	Ser	Arg	Ile	Leu	Leu	Ser	Met	Ser	Ile	Lys	Arg	Leu	Ile	Leu		
				325					330					335			
aaa	att	att	aaa	ggc	aca	gtt	aca	gga	aac	aca	gta	gct	cct	ata	atg	1056	
Lys	Ile	Ile	Lys	Gly	Thr	Val	Thr	Gly	Asn	Thr	Val	Ala	Pro	Ile	Met		
			340					345					350				
aat	ata	ttt	aaa	aat	tta	tat	att	aaa	aat	gtc	aga	tct	tct	caa	gaa	1104	
Asn	Ile	Phe	Lys	Asn	Leu	Tyr	Ile	Lys	Asn	Val	Arg	Ser	Ser	Gln	Glu		

355	360	365	
gct tta tta tca gca att tta aaa ata tgg tca tat gct cca aca att			1152
Ala Leu Leu Ser Ala Ile Leu Lys Ile Trp Ser Tyr Ala Pro Thr Ile			
370	375	380	
ggt ctg aaa aat ata tca tct gat ttt aga aca gaa act gta ttt ttt			1200
Val Leu Lys Asn Ile Ser Ser Asp Phe Arg Thr Glu Thr Val Phe Phe			
385	390	395	400
ggt gaa tat gaa ata tct gaa tac aat caa ttt gaa aat caa aat ata			1248
Val Glu Tyr Glu Ile Ser Glu Tyr Asn Gln Phe Glu Asn Gln Asn Ile			
405	410	415	
aaa ttc act caa gaa tta atg aaa tat att tat tac gat cct att gtt			1296
Lys Phe Thr Gln Glu Leu Met Lys Tyr Ile Tyr Tyr Asp Pro Ile Val			
420	425	430	
aat aaa gtt att ttg tct cct aaa tat att ttg gat tcg ata ggc gga			1344
Asn Lys Val Ile Leu Ser Pro Lys Tyr Ile Leu Asp Ser Ile Gly Gly			
435	440	445	
aac aca ggt atg caa agt ata aca tat tgt aat agt ggt ttt aga agt			1392
Asn Thr Gly Met Gln Ser Ile Thr Tyr Cys Asn Ser Gly Phe Arg Ser			
450	455	460	
att aat cct atg aca aat gta gct tta aaa tca aca ggt atg ttc att			1440
Ile Asn Pro Met Thr Asn Val Ala Leu Lys Ser Thr Gly Met Phe Ile			
465	470	475	480
tta tct ata cct aga tta att aaa caa tca tat tct tat ggt tta cct			1488
Leu Ser Ile Pro Arg Leu Ile Lys Gln Ser Tyr Ser Tyr Gly Leu Pro			
485	490	495	
gac gaa ttt tct gat aga tta tta act aaa tat gta gat tta gat caa			1536
Asp Glu Phe Ser Asp Arg Leu Leu Thr Lys Tyr Val Asp Leu Asp Gln			
500	505	510	
aat att acc att ggt tgt aat atg ttt caa tta aga gcg gcc gtt tgt			1584
Asn Ile Thr Ile Gly Cys Asn Met Phe Gln Leu Arg Ala Ala Val Cys			
515	520	525	
tac aaa ata tca aaa tat gtt gat tta gat aca tgt ata cag aat cct			1632
Tyr Lys Ile Ser Lys Tyr Val Asp Leu Asp Thr Cys Ile Gln Asn Pro			
530	535	540	
ata tca tta gga aca gtt gct att gta aaa aca caa aaa ggg tgg att			1680
Ile Ser Leu Gly Thr Val Ala Ile Val Lys Thr Gln Lys Gly Trp Ile			
545	550	555	560
aga tat aat cca gat tta atg tat tct tgt aac gaa aag aaa gat tta			1728
Arg Tyr Asn Pro Asp Leu Met Tyr Ser Cys Asn Glu Lys Lys Asp Leu			
565	570	575	
tta gat aaa ata cta aga aat gaa tat aaa aaa tca ttg aat tta aat			1776
Leu Asp Lys Ile Leu Arg Asn Glu Tyr Lys Lys Ser Leu Asn Leu Asn			
580	585	590	

aat tat gaa gtt aat caa tat tta gat aaa gat tac gaa gaa tgg aaa 1824
 Asn Tyr Glu Val Asn Gln Tyr Leu Asp Lys Asp Tyr Glu Glu Trp Lys
 595 600 605

agt act ttt tca tct att aat aat att atc gat aaa ttt gaa aaa ggt 1872
 Ser Thr Phe Ser Ser Ile Asn Asn Ile Ile Asp Lys Phe Glu Lys Gly
 610 615 620

tac gta agt aca gat tca tta att att caa gag gca gaa gcc atc gat 1920
 Tyr Val Ser Thr Asp Ser Leu Ile Ile Gln Glu Ala Glu Ala Ile Asp
 625 630 635 640

ata att agt aga tat gga act att ata ata tac gca caa gaa tat act 1968
 Ile Ile Ser Arg Tyr Gly Thr Ile Ile Ile Tyr Ala Gln Glu Tyr Thr
 645 650 655

aat ggt gta gat atg tta cca ctg aga aga tat tat taa 2007
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<210> 49

<211> 723

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

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<222> (1) .. (723)

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gca att ata gga aaa aca gga tca ggt aaa act aca ttt tta aag aat 96
 Ala Ile Ile Gly Lys Thr Gly Ser Gly Lys Thr Thr Phe Leu Lys Asn
 20 25 30

tta tta tta aaa att ggt tac gga ttt tat aaa ttt ata tat tta att 144
 Leu Leu Leu Lys Ile Gly Tyr Gly Phe Tyr Lys Phe Ile Tyr Leu Ile
 35 40 45

act agt tct gaa gtt aac ttt aaa tca aat gaa tat ttt aaa ttt att 192
 Thr Ser Ser Glu Val Asn Phe Lys Ser Asn Glu Tyr Phe Lys Phe Ile

50	55	60	
tat ccc aat cat gtt ttt tat ctt tat tcg aat aac aaa gac aag gat			240
Tyr Pro Asn His Val Phe Tyr Leu Tyr Ser Asn Asn Lys Asp Lys Asp			
65	70	75	80
ggt aaa tat tta tta caa gca tat tta gaa aaa att aaa aat ttt agt			288
Val Lys Tyr Leu Leu Gln Ala Tyr Leu Glu Lys Ile Lys Asn Phe Ser			
	85	90	95
ttt gaa atg aat caa aag tgt gaa aat ttt aga aca tta gtt att tat			336
Phe Glu Met Asn Gln Lys Cys Glu Asn Phe Arg Thr Leu Val Ile Tyr			
	100	105	110
gat gat att ggc aaa gac aca aaa gat aaa tta agt aat ttt aca aat			384
Asp Asp Ile Gly Lys Asp Thr Lys Asp Lys Leu Ser Asn Phe Thr Asn			
	115	120	125
gtg tgc aga cat tcg tta gta tca aat att ttt cta gtt cat aga tta			432
Val Cys Arg His Ser Leu Val Ser Asn Ile Phe Leu Val His Arg Leu			
	130	135	140
gaa cat tta gat aca act aca aga gat agt tta tca tat cat gtt ata			480
Glu His Leu Asp Thr Thr Thr Arg Asp Ser Leu Ser Tyr His Val Ile			
	145	150	155
aat tcc gaa tca gaa aat atg gat tta ata cct tgt aat aaa aat cta			528
Asn Ser Glu Ser Glu Asn Met Asp Leu Ile Pro Cys Asn Lys Asn Leu			
	165	170	175
aga aat tca tta ctt gca tct gtg ata aat att ttt aaa gat cgc gaa			576
Arg Asn Ser Leu Leu Ala Ser Val Ile Asn Ile Phe Lys Asp Arg Glu			
	180	185	190
caa tca aaa tat tat ata tat tgt ata ata tat gat tct gta tct tat			624
Gln Ser Lys Tyr Tyr Ile Tyr Cys Ile Ile Tyr Asp Ser Val Ser Tyr			
	195	200	205
tct tgt tta ata tca gac gat gat tta gaa aat ata aaa aat gaa gat			672
Ser Cys Leu Ile Ser Asp Asp Asp Leu Glu Asn Ile Lys Asn Glu Asp			
	210	215	220
aaa tat gta ttt tat act gat tcc gtg att aaa tct cat ata cta aat			720
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taa			723

<210> 50

<211> 1407

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(1407)

<223>

<400> 50

atg agt aat att gaa ata tat gat atg ttt gaa ggt gat aag gaa gta	48
Met Ser Asn Ile Glu Ile Tyr Asp Met Phe Glu Gly Asp Lys Glu Val	
1 5 10 15	
cta ttt ata gct ggt tca cat ata aat gaa tta aaa gct gat aaa aat	96
Leu Phe Ile Ala Gly Ser His Ile Asn Glu Leu Lys Ala Asp Lys Asn	
20 25 30	
tta tgt agt gaa gtt ata aat aat gtt gtt aat gat ttt tcg ttt tct	144
Leu Cys Ser Glu Val Ile Asn Asn Val Val Asn Asp Phe Ser Phe Ser	
35 40 45	
aac att gaa aaa aac ttt aaa aat ata aaa aaa att aat aaa ttt aaa	192
Asn Ile Glu Lys Asn Phe Lys Asn Ile Lys Lys Ile Asn Lys Phe Lys	
50 55 60	
tat aaa att att aat gat att aca aat gta act gaa aca gat tat ttt	240
Tyr Lys Ile Ile Asn Asp Ile Thr Asn Val Thr Glu Thr Asp Tyr Phe	
65 70 75 80	
aaa cca tat ttt aaa atg aaa cca tat atg gct aat caa tat ata tat	288
Lys Pro Tyr Phe Lys Met Lys Pro Tyr Met Ala Asn Gln Tyr Ile Tyr	
85 90 95	
cat ata cat act gga gga tat ggc atg act gtt cgt att aat gaa agt	336
His Ile His Thr Gly Gly Tyr Gly Met Thr Val Arg Ile Asn Glu Ser	
100 105 110	
ttt tgt ttt aaa ata tca tta aat cca act aat aat cag ata cat gaa	384
Phe Cys Phe Lys Ile Ser Leu Asn Pro Thr Asn Asn Gln Ile His Glu	
115 120 125	
ttt gta ata ccc agg atg tta tct agt att ata tct tat tca aac gca	432
Phe Val Ile Pro Arg Met Leu Ser Ser Ile Ile Ser Tyr Ser Asn Ala	
130 135 140	
gac aaa tta ata tta tta cca tat aca tta ata aag aat ata aat ttc	480
Asp Lys Leu Ile Leu Leu Pro Tyr Thr Leu Ile Lys Asn Ile Asn Phe	
145 150 155 160	
aat gga ttg ata tat ata ata agt atg cat aat ata att tta tta tta	528
Asn Gly Leu Ile Tyr Ile Ile Ser Met His Asn Ile Ile Leu Leu Leu	
165 170 175	

att aat ttt ata tta gat aaa aat tat agt aat att gat ata tat aat Ile Asn Phe Ile Leu Asp Lys Asn Tyr Ser Asn Ile Asp Ile Tyr Asn 180 185 190	576
aca tat tta gat ttt aat aaa atg aat agt att tat aga tct tta aca Thr Tyr Leu Asp Phe Asn Lys Met Asn Ser Ile Tyr Arg Ser Leu Thr 195 200 205	624
aaa gat gaa gaa tta tta tat aaa tgt ttt act tat ttt tat aaa aaa Lys Asp Glu Glu Leu Leu Tyr Lys Cys Phe Thr Tyr Phe Tyr Lys Lys 210 215 220	672
tat ttt aaa aat att ttt aat gtt ata atg att aat aat tat tca tca Tyr Phe Lys Asn Ile Phe Asn Val Ile Met Ile Asn Asn Tyr Ser Ser 225 230 235 240	720
ata att tat tat tta agt act att aaa gat tta tta act aat aaa gat Ile Ile Tyr Tyr Leu Ser Thr Ile Lys Asp Leu Leu Thr Asn Lys Asp 245 250 255	768
tat aaa gac aaa ata tat gga tct att ata ata atg cct tta gct ata Tyr Lys Asp Lys Ile Tyr Gly Ser Ile Ile Ile Met Pro Leu Ala Ile 260 265 270	816
tgt gcg tcg aat gag ttg aaa ctt tca ata tat aat gac aca tat gtt Cys Ala Ser Asn Glu Leu Lys Leu Ser Ile Tyr Asn Asp Thr Tyr Val 275 280 285	864
cca gat atg ata aat gga aat att gca tat gaa gta aat aat aga tat Pro Asp Met Ile Asn Gly Asn Ile Ala Tyr Glu Val Asn Asn Arg Tyr 290 295 300	912
ata aga cat att gta tta gtt gtt tta tta tta ata tgt ata cca aac Ile Arg His Ile Val Leu Val Val Leu Leu Leu Ile Cys Ile Pro Asn 305 310 315 320	960
aaa gat aga atg ata ttt ttt cac aat gat ata aaa ccc aat aat ata Lys Asp Arg Met Ile Phe Phe His Asn Asp Ile Lys Pro Asn Asn Ile 325 330 335	1008
tta gtt ttt cct aat gta aat aaa gaa aaa tta ata ata aaa tat aac Leu Val Phe Pro Asn Val Asn Lys Glu Lys Leu Ile Ile Lys Tyr Asn 340 345 350	1056
aat agg aat ata ata ttt aaa gaa tta tat ata tta aaa tta aca gat Asn Arg Asn Ile Ile Phe Lys Glu Leu Tyr Ile Leu Lys Leu Thr Asp 355 360 365	1104
ttt gat tta tct aga ata gaa gga tta gat aac aat aga att aaa aat Phe Asp Leu Ser Arg Ile Glu Gly Leu Asp Asn Asn Arg Ile Lys Asn 370 375 380	1152
tct cca ata tta tta tat aat aac ata att aac gat ata tat tat ttt Ser Pro Ile Leu Leu Tyr Asn Asn Ile Ile Asn Asp Ile Tyr Tyr Phe 385 390 395 400	1200
ttt tat aga tta aaa tat gat ttt ttt tta aat tta aaa aca ata gat	1248

Phe Tyr Arg Leu Lys Tyr Asp Phe Phe Leu Asn Leu Lys Thr Ile Asp
 405 410 415
 cca gag tta aac gaa cat ata gaa aat aaa ttt tta tta aaa aaa tat 1296
 Pro Glu Leu Asn Glu His Ile Glu Asn Lys Phe Leu Leu Lys Lys Tyr
 420 425 430
 atg aaa gat act ata aat aat cat aat tac aaa gga aat gaa aaa atg 1344
 Met Lys Asp Thr Ile Asn Asn His Asn Tyr Lys Gly Asn Glu Lys Met
 435 440 445
 tct ata agt ttt gtt aat gat ttc ata ttt aat tct gga tta ttt aat 1392
 Ser Ile Ser Phe Val Asn Asp Phe Ile Phe Asn Ser Gly Leu Phe Asn
 450 455 460
 tat tgg tta gat taa 1407
 Tyr Trp Leu Asp
 465

<210> 51

<211> 714

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(714)

<223>

<400> 51
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 1 5 10 15
 gaa gat atg gat gat cta gtg tat agt gaa gtt tgt gca aat gat gaa 96
 Glu Asp Met Asp Asp Leu Val Tyr Ser Glu Val Cys Ala Asn Asp Glu
 20 25 30
 tct gac gaa tct gaa ata aat tta tta gat gaa ata att aac gaa gaa 144
 Ser Asp Glu Ser Glu Ile Asn Leu Leu Asp Glu Ile Ile Asn Glu Glu
 35 40 45
 caa gaa atg gaa ata att aaa aaa ata aaa acc aaa gat aaa att aaa 192
 Gln Glu Met Glu Ile Ile Lys Lys Ile Lys Thr Lys Asp Lys Ile Lys
 50 55 60

tat ttt aaa ggt aaa att ata gat atg aat aaa ata aat aaa gca aaa 240
 Tyr Phe Lys Gly Lys Ile Ile Asp Met Asn Lys Ile Asn Lys Ala Lys
 65 70 75 80

gaa aaa tat tta tat aat ata aaa ttt aat gaa tta ttg tct ata ttt 288
 Glu Lys Tyr Leu Tyr Asn Ile Lys Phe Asn Glu Leu Leu Ser Ile Phe
 85 90 95

cta aat tat act aat att tta caa agt ggt gga ttg cca tta tta gat 336
 Leu Asn Tyr Thr Asn Ile Leu Gln Ser Gly Gly Leu Pro Leu Leu Asp
 100 105 110

gaa att aaa tta aaa aat aat tat aat att gaa tta ttt tca aat tct 384
 Glu Ile Lys Leu Lys Asn Asn Tyr Asn Ile Glu Leu Phe Ser Asn Ser
 115 120 125

tct aca aca cca gaa aca gca gca atg ata atg tta ata att atg aat 432
 Ser Thr Thr Pro Glu Thr Ala Ala Met Ile Met Leu Ile Ile Met Asn
 130 135 140

ata cct atg tgt gtt aaa aaa aac aat aaa ata tat aat aga gaa gta 480
 Ile Pro Met Cys Val Lys Lys Asn Asn Lys Ile Tyr Asn Arg Glu Val
 145 150 155 160

tta aat ata gat aaa ttg aat atc gat tat ata aat tgt tat tac caa 528
 Leu Asn Ile Asp Lys Leu Asn Ile Asp Tyr Ile Asn Cys Tyr Tyr Gln
 165 170 175

aat gta aaa aat atg tta cga tgt gtt aca tat aat tct aat aat aaa 576
 Asn Val Lys Asn Met Leu Arg Cys Val Thr Tyr Asn Ser Asn Asn Lys
 180 185 190

ttt gat ttt aat aaa ttt aaa att tta ttt ccg tta ttt ata gaa tat 624
 Phe Asp Phe Asn Lys Phe Lys Ile Leu Phe Pro Leu Phe Ile Glu Tyr
 195 200 205

ata aat cgt gat gaa att agt aat gaa gaa tta gat gaa att aaa aat 672
 Ile Asn Arg Asp Glu Ile Ser Asn Glu Glu Leu Asp Glu Ile Lys Asn
 210 215 220

gtt aaa aga att ata aca aat tat gat tat gaa aat tta taa 714
 Val Lys Arg Ile Ile Thr Asn Tyr Asp Tyr Glu Asn Leu
 225 230 235

<210> 52

<211> 246

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (246)

<223>

<400> 52

atg	caa	ata	ttc	att	aaa	aca	tta	aca	ggt	aaa	aca	atc	aca	cta	gaa	48
Met	Gln	Ile	Phe	Ile	Lys	Thr	Leu	Thr	Gly	Lys	Thr	Ile	Thr	Leu	Glu	
1				5					10					15		

gta	gaa	agt	tca	gat	act	ata	tca	aat	att	aaa	aat	aaa	ata	caa	gat	96
Val	Glu	Ser	Ser	Asp	Thr	Ile	Ser	Asn	Ile	Lys	Asn	Lys	Ile	Gln	Asp	
			20					25					30			

aaa	gaa	gga	att	cct	ccg	gat	cag	caa	aga	ttg	att	ttt	gct	gga	aaa	144
Lys	Glu	Gly	Ile	Pro	Pro	Asp	Gln	Gln	Arg	Leu	Ile	Phe	Ala	Gly	Lys	
		35					40					45				

caa	tta	gat	gat	agc	aga	act	ctt	tca	gat	tat	aat	ata	tct	aaa	gaa	192
Gln	Leu	Asp	Asp	Ser	Arg	Thr	Leu	Ser	Asp	Tyr	Asn	Ile	Ser	Lys	Glu	
	50					55					60					

tct	act	tta	cat	ttg	gta	tta	aga	ctt	aga	ggt	gga	acg	aat	ata	aat	240
Ser	Thr	Leu	His	Leu	Val	Leu	Arg	Leu	Arg	Gly	Gly	Thr	Asn	Ile	Asn	
65				70						75				80		

tat	tag															246
Tyr																

<210> 53

<211> 2013

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (2013)

<223>

<400> 53

atg	aat	aaa	gtt	ata	tta	gat	gat	ttg	aga	aat	gat	aat	att	ccg	aac	48
Met	Asn	Lys	Val	Ile	Leu	Asp	Asp	Leu	Arg	Asn	Asp	Asn	Ile	Pro	Asn	

1	5	10	15	
aat att gct caa att ttg cct cat cag tta gca aca tta gat ttt tta				96
Asn Ile Ala Gln Ile Leu Pro His Gln Leu Ala Thr Leu Asp Phe Leu				
20		25	30	
tat caa aaa tgt ata aat aat gct aat agt gtt tta ttg ttt cat aaa				144
Tyr Gln Lys Cys Ile Asn Asn Ala Asn Ser Val Leu Leu Phe His Lys				
35		40	45	
atg ggt tct ggt aaa aca att att tct ctt ttg ttt agc ata tta ata				192
Met Gly Ser Gly Lys Thr Ile Ile Ser Leu Leu Phe Ser Ile Leu Ile				
50		55	60	
tgt aat att aaa aaa gtt ata ata gta ttg cct agt tat agt ata tta				240
Cys Asn Ile Lys Lys Val Ile Ile Val Leu Pro Ser Tyr Ser Ile Leu				
65		70	75	80
gaa atg tgg aaa caa aat tta tat aga tct tta att tta ctt cct aat				288
Glu Met Trp Lys Gln Asn Leu Tyr Arg Ser Leu Ile Leu Leu Pro Asn				
85		90	95	
aaa gaa tat aat tta caa aat att gaa ttt aca act aga aca aaa tta				336
Lys Glu Tyr Asn Leu Gln Asn Ile Glu Phe Thr Thr Arg Thr Lys Leu				
100		105	110	
aac gaa gat ata atg tta ata ggt aaa act gat ata ata aat gaa aaa				384
Asn Glu Asp Ile Met Leu Ile Gly Lys Thr Asp Ile Ile Asn Glu Lys				
115		120	125	
tta aaa aat tat aac gat tat att atg ata ata gat gaa gca cat aat				432
Leu Lys Asn Tyr Asn Asp Tyr Ile Met Ile Ile Asp Glu Ala His Asn				
130		135	140	
ttt ttt gga aat atg aca ggt agt gta tta tct act cta aga aaa aat				480
Phe Phe Gly Asn Met Thr Gly Ser Val Leu Ser Thr Leu Arg Lys Asn				
145		150	155	160
aca aat ata ata tat gtt tta ttg aca ggt agt ccg ata aca aat act				528
Thr Asn Ile Ile Tyr Val Leu Leu Thr Gly Ser Pro Ile Thr Asn Thr				
165		170	175	
gtt tcg aca ata aaa gat att gtg gaa tta tta act agg gaa aca ttt				576
Val Ser Thr Ile Lys Asp Ile Val Glu Leu Leu Thr Arg Glu Thr Phe				
180		185	190	
gat gaa aat aag tat att aaa ata ggt gga aat cgt gtt ttt gaa aaa				624
Asp Glu Asn Lys Tyr Ile Lys Ile Gly Gly Asn Arg Val Phe Glu Lys				
195		200	205	
agt ata aat aac gaa ggt att gca ttt tta aat aaa aat cta aag ggt				672
Ser Ile Asn Asn Glu Gly Ile Ala Phe Leu Asn Lys Asn Leu Lys Gly				
210		215	220	
tta ata tca tat tat gat gaa gag agg aaa gat gtt cct gaa gta aaa				720
Leu Ile Ser Tyr Tyr Asp Glu Glu Arg Lys Asp Val Pro Glu Val Lys				
225		230	235	240

tac aga ggt aaa aaa ata ttt cta tgt cct ttg aca tta tgt cca atg	768
Tyr Arg Gly Lys Lys Ile Phe Leu Cys Pro Leu Thr Leu Cys Pro Met	
245 250 255	
tct aaa tta cat gaa gaa aat tat tat gaa gta gct aga aat act aaa	816
Ser Lys Leu His Glu Glu Asn Tyr Tyr Glu Val Ala Arg Asn Thr Lys	
260 265 270	
aat gat atg ttt gtt aaa tta tta atg agt gtt tcg ttg gtt gca tta	864
Asn Asp Met Phe Val Lys Leu Leu Met Ser Val Ser Leu Val Ala Leu	
275 280 285	
gga tct ata tca aat tat gaa aat ttt tca caa ttt atg gag aca gat	912
Gly Ser Ile Ser Asn Tyr Glu Asn Phe Ser Gln Phe Met Glu Thr Asp	
290 295 300	
aaa aaa ata ttt gat aat ttt tat att tct aat gga aaa ttt tca gga	960
Lys Lys Ile Phe Asp Asn Phe Tyr Ile Ser Asn Gly Lys Phe Ser Gly	
305 310 315 320	
tct gaa tta gtt aca tta aat ata tct tct aaa tta aaa act ttt aga	1008
Ser Glu Leu Val Thr Leu Asn Ile Ser Ser Lys Leu Lys Thr Phe Arg	
325 330 335	
gat act ata ttt aaa gaa aga aat gtt ggt aaa cga ttt gta tat ttt	1056
Asp Thr Ile Phe Lys Glu Arg Asn Val Gly Lys Arg Phe Val Tyr Phe	
340 345 350	
gct aat agt act ata gga agt gct ata ata aga agt gtt atg tta gca	1104
Ala Asn Ser Thr Ile Gly Ser Ala Ile Ile Arg Ser Val Met Leu Ala	
355 360 365	
aat ggc ata tct gaa tat gga aaa gaa att gtt aat aat ttt aca tgt	1152
Asn Gly Ile Ser Glu Tyr Gly Lys Glu Ile Val Asn Asn Phe Thr Cys	
370 375 380	
gtt aat tgt ata aag gat aaa att tgt cac aat gga gaa tgt att cct	1200
Val Asn Cys Ile Lys Asp Lys Ile Cys His Asn Gly Glu Cys Ile Pro	
385 390 395 400	
atg aga ttt gta ata att aca tca aaa gaa tta aat aaa gga aat agt	1248
Met Arg Phe Val Ile Ile Thr Ser Lys Glu Leu Asn Lys Gly Asn Ser	
405 410 415	
aat tat ata aat aat att tta agt att ttt aac gaa gat att aat gat	1296
Asn Tyr Ile Asn Asn Ile Leu Ser Ile Phe Asn Glu Asp Ile Asn Asp	
420 425 430	
gat gga aat aat ata atg ttt tta ttt ggt tca aaa att ata tca gaa	1344
Asp Gly Asn Asn Ile Met Phe Leu Phe Gly Ser Lys Ile Ile Ser Glu	
435 440 445	
gct tat act tta aaa aac gta aaa gat ata tgg ttt tta act gtt cct	1392
Ala Tyr Thr Leu Lys Asn Val Lys Asp Ile Trp Phe Leu Thr Val Pro	
450 455 460	

gaa aca aaa tct gaa tta gat caa tgt gta gct aga gct gtt aga tca 1440
 Glu Thr Lys Ser Glu Leu Asp Gln Cys Val Ala Arg Ala Val Arg Ser
 465 470 475 480

ttt tct tat aaa gat act aat aca aaa gta ata att aga ata tgt att 1488
 Phe Ser Tyr Lys Asp Thr Asn Thr Lys Val Ile Ile Arg Ile Cys Ile
 485 490 495

gca tca aca aca aat aca tta agt aac gat gtt tct aaa aca att gaa 1536
 Ala Ser Thr Thr Asn Thr Leu Ser Asn Asp Val Ser Lys Thr Ile Glu
 500 505 510

caa tat aaa gat gtt aat att tct gat gtt tat aaa aat act tta tta 1584
 Gln Tyr Lys Asp Val Asn Ile Ser Asp Val Tyr Lys Asn Thr Leu Leu
 515 520 525

aat aaa att gaa tta ttg tta acg gaa agt tcg tat act tta tct tat 1632
 Asn Lys Ile Glu Leu Leu Leu Thr Glu Ser Ser Tyr Thr Leu Ser Tyr
 530 535 540

gat ttt aga aaa caa tta tat tct gaa tta aaa ttt gaa aaa tct aaa 1680
 Asp Phe Arg Lys Gln Leu Tyr Ser Glu Leu Lys Phe Glu Lys Ser Lys
 545 550 555 560

gta gct gat aat ata ttt aaa aat cta act att tta tct tca gat acc 1728
 Val Ala Asp Asn Ile Phe Lys Asn Leu Thr Ile Leu Ser Ser Asp Thr
 565 570 575

atc gag agt gat gtt ttg gaa tgt ttt gtt tta gaa aaa atc cga aga 1776
 Ile Glu Ser Asp Val Leu Glu Cys Phe Val Leu Glu Lys Ile Arg Arg
 580 585 590

tat tgt tat tac aat aca aga ttt aaa ttt aca aca tta aac gaa tat 1824
 Tyr Cys Tyr Tyr Asn Thr Arg Phe Lys Phe Thr Thr Leu Asn Glu Tyr
 595 600 605

ata att aaa aat ata gat att aaa tat aat gat aaa ata aaa gaa tat 1872
 Ile Ile Lys Asn Ile Asp Ile Lys Tyr Asn Asp Lys Ile Lys Glu Tyr
 610 615 620

att aat aat gct ata gaa tca tca ttt gtt ata gaa aat gat ata ttt 1920
 Ile Asn Asn Ala Ile Glu Ser Ser Phe Val Ile Glu Asn Asp Ile Phe
 625 630 635 640

ggt aat tgc tat tta aca tat ttt aaa aat gat att gtt acg gtt ccc 1968
 Gly Asn Cys Tyr Leu Thr Tyr Phe Lys Asn Asp Ile Val Thr Val Pro
 645 650 655

ata gta tta gaa tat aat aat cat cta tta tca gtt aga ttg tga 2013
 Ile Val Leu Glu Tyr Asn Asn His Leu Leu Ser Val Arg Leu
 660 665 670

<210> 54

<211> 1395

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (1395)

<223>

<400> 54

atg aat aat aaa att aga aga ttt cca aat aaa aat tta aaa atg cca	48
Met Asn Asn Lys Ile Arg Arg Phe Pro Asn Lys Asn Leu Lys Met Pro	
1 5 10 15	
 gaa tct ggt att aat ttt atg tct atg tta ttt ttt agt aaa ata gat	96
Glu Ser Gly Ile Asn Phe Met Ser Met Leu Phe Phe Ser Lys Ile Asp	
20 25 30	
 aat atg gta tat ttt ata aat cct att aaa tat aat act aat gca aat	144
Asn Met Val Tyr Phe Ile Asn Pro Ile Lys Tyr Asn Thr Asn Ala Asn	
35 40 45	
 ata gct ata tta gaa aaa ata gat gat gat gat gaa aca aga ggt aaa	192
Ile Ala Ile Leu Glu Lys Ile Asp Asp Asp Asp Glu Thr Arg Gly Lys	
50 55 60	
 gta aca ttt ata cct ata aaa tac ttg gaa ata tta tat aat gaa tta	240
Val Thr Phe Ile Pro Ile Lys Tyr Leu Glu Ile Leu Tyr Asn Glu Leu	
65 70 75 80	
 gtt tta gat cca aat cat att aat aat att aat ttt gaa aat aat att	288
Val Leu Asp Pro Asn His Ile Asn Asn Ile Asn Phe Glu Asn Asn Ile	
85 90 95	
 aaa aga aaa ttt ttt cta ttt tgg act ata aaa aaa tat tta caa gat	336
Lys Arg Lys Phe Phe Leu Phe Trp Thr Ile Lys Lys Tyr Leu Gln Asp	
100 105 110	
 aaa aat ata aat att aat act ttt att aca tct aaa aaa tat aaa ggc	384
Lys Asn Ile Asn Ile Asn Thr Phe Ile Thr Ser Lys Lys Tyr Lys Gly	
115 120 125	
 att cca tta gta tat atg aga aag tct ttt cta aaa tca gaa tta tcc	432
Ile Pro Leu Val Tyr Met Arg Lys Ser Phe Leu Lys Ser Glu Leu Ser	
130 135 140	
 aaa aca aga gat ttt tct aca ttt gcc aca att tat gat gat ttg gat	480
Lys Thr Arg Asp Phe Ser Thr Phe Ala Thr Ile Tyr Asp Asp Leu Asp	
145 150 155 160	

gct caa ata gga ata ccg cct ttg gga ttt aat cct aaa cct aaa gct	528
Ala Gln Ile Gly Ile Pro Pro Leu Gly Phe Asn Pro Lys Pro Lys Ala	
165 170 175	
tac cca aga aaa cat gat aaa tct aca tgg tta agt tcg gga gat ata	576
Tyr Pro Arg Lys His Asp Lys Ser Thr Trp Leu Ser Ser Gly Asp Ile	
180 185 190	
tat aat tgt ata tat cca tta act atg att aat aca gat tat gat tat	624
Tyr Asn Cys Ile Tyr Pro Leu Thr Met Ile Asn Thr Asp Tyr Asp Tyr	
195 200 205	
ttt cat ttg att tta ttt gaa aaa act gat aaa aat att gct aca gta	672
Phe His Leu Ile Leu Phe Glu Lys Thr Asp Lys Asn Ile Ala Thr Val	
210 215 220	
gct tca tct atg aga tgc tat aaa ctt gaa gat aga gta aaa ttt ttt	720
Ala Ser Ser Met Arg Cys Tyr Lys Leu Glu Asp Arg Val Lys Phe Phe	
225 230 235 240	
tta atg aat gat aaa aaa aga ttt ttt atg ttt cct ata att tat aat	768
Leu Met Asn Asp Lys Lys Arg Phe Phe Met Phe Pro Ile Ile Tyr Asn	
245 250 255	
gat cat ttt act tgt tgc gta ata gat aaa cac ttt gat aaa gat aaa	816
Asp His Phe Thr Cys Cys Val Ile Asp Lys His Phe Asp Lys Asp Lys	
260 265 270	
aaa gct gca tac ttt ttt aat agt agt ggt tat ata cca gaa ctt ata	864
Lys Ala Ala Tyr Phe Phe Asn Ser Ser Gly Tyr Ile Pro Glu Leu Ile	
275 280 285	
aaa caa aat aaa aaa tat atg ttt att gaa tct gat atg act ata aaa	912
Lys Gln Asn Lys Lys Tyr Met Phe Ile Glu Ser Asp Met Thr Ile Lys	
290 295 300	
agc cat aaa cac tac aat agt act cct aat act aat tat gct tat tta	960
Ser His Lys His Tyr Asn Ser Thr Pro Asn Thr Asn Tyr Ala Tyr Leu	
305 310 315 320	
tac att gat gta cta tca gaa tat tta aat gat ata ttt aaa aat gta	1008
Tyr Ile Asp Val Leu Ser Glu Tyr Leu Asn Asp Ile Phe Lys Asn Val	
325 330 335	
aat tat tac ttt ttt aat act ttt gaa tta caa tat gat agt ccc gat	1056
Asn Tyr Tyr Phe Phe Asn Thr Phe Glu Leu Gln Tyr Asp Ser Pro Asp	
340 345 350	
tgt ggt atg ttt aat ata ata ttt tta tat tat ata gtt tat ttc aac	1104
Cys Gly Met Phe Asn Ile Ile Phe Leu Tyr Tyr Ile Val Tyr Phe Asn	
355 360 365	
ata aaa tct aaa ttt gaa ttt aaa aaa tta tat tat tct atg agt ttt	1152
Ile Lys Ser Lys Phe Glu Phe Lys Lys Leu Tyr Tyr Ser Met Ser Phe	
370 375 380	
att ggt gat tta ttg gct agt agt tat aga ggt gca tta ttt att tct	1200

Ile Gly Asp Leu Leu Ala Ser Ser Tyr Arg Gly Ala Leu Phe Ile Ser	
385 390 395 400	
aga tat gat att aat agt att gac gaa ttt aaa aat aca tta gaa ata	1248
Arg Tyr Asp Ile Asn Ser Ile Asp Glu Phe Lys Asn Thr Leu Glu Ile	
405 410 415	
ttt aat ata aaa aat aaa aag ttt atg gaa tta ata gat atg tat aaa	1296
Phe Asn Ile Lys Asn Lys Lys Phe Met Glu Leu Ile Asp Met Tyr Lys	
420 425 430	
aaa aat agt aat aga att atg aat gta tgt agt aaa ata aaa aat gat	1344
Lys Asn Ser Asn Arg Ile Met Asn Val Cys Ser Lys Ile Lys Asn Asp	
435 440 445	
tat gat agt tat att gat aat gag aag aat agt tta gaa tct aat att	1392
Tyr Asp Ser Tyr Ile Asp Asn Glu Lys Asn Ser Leu Glu Ser Asn Ile	
450 455 460	
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<210> 55

<211> 1947

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (1947)

<223>

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atg ttt gca tta gat tct att gtt ggt aaa cat ata aat tat gca ctt	48
Met Phe Ala Leu Asp Ser Ile Val Gly Lys His Ile Asn Tyr Ala Leu	
1 5 10 15	
gat aaa aca caa cat ttg cct aat aaa att atg aat aat att aca aat	96
Asp Lys Thr Gln His Leu Pro Asn Lys Ile Met Asn Asn Ile Thr Asn	
20 25 30	
act gaa att aca tta caa gat tat caa tat ttt gta agt aga ata ttc	144
Thr Glu Ile Thr Leu Gln Asp Tyr Gln Tyr Phe Val Ser Arg Ile Phe	
35 40 45	
ata gga tta aaa aat ttg aat agt atg tta tta ttt tgg gat act ggt	192
Ile Gly Leu Lys Asn Leu Asn Ser Met Leu Leu Phe Trp Asp Thr Gly	

50	55	60	
atg gga aaa aca tta act gct gtg tat att ata aaa tat ata aaa gaa			240
Met Gly Lys Thr Leu Thr Ala Val Tyr Ile Ile Lys Tyr Ile Lys Glu			
65	70	75	80
tta ttt cca aga tgg ata att tta ata ttt att aaa aaa tca tta tac			288
Leu Phe Pro Arg Trp Ile Ile Leu Ile Phe Ile Lys Lys Ser Leu Tyr			
	85	90	95
ata gat cct tgg tta aat act ata aga tca tat ata tca gat acc agt			336
Ile Asp Pro Trp Leu Asn Thr Ile Arg Ser Tyr Ile Ser Asp Thr Ser			
	100	105	110
aat ata aaa ttt ata tat tat gat tct tca tct agt tta gat aaa ttt			384
Asn Ile Lys Phe Ile Tyr Tyr Asp Ser Ser Ser Ser Leu Asp Lys Phe			
	115	120	125
aat aat ata tat aga tct ata gaa agt tct ctt aat aaa aaa agt aga			432
Asn Asn Ile Tyr Arg Ser Ile Glu Ser Ser Leu Asn Lys Lys Ser Arg			
	130	135	140
tta cta ata ata ata gac gaa gtt cat aaa tta ata tca aga act gtt			480
Leu Leu Ile Ile Ile Asp Glu Val His Lys Leu Ile Ser Arg Thr Val			
145	150	155	160
aaa aaa gat aat aac gaa aga aat ttt act cct att tat aaa aaa tta			528
Lys Lys Asp Asn Asn Glu Arg Asn Phe Thr Pro Ile Tyr Lys Lys Leu			
	165	170	175
ata aaa tta gca aat ttc gaa aat aat aaa ata tta tgt atg tcc gct			576
Ile Lys Leu Ala Asn Phe Glu Asn Asn Lys Ile Leu Cys Met Ser Ala			
	180	185	190
act cca gta act aat aat att tct gaa ttt aat aat tta ata ggt tta			624
Thr Pro Val Thr Asn Asn Ile Ser Glu Phe Asn Asn Leu Ile Gly Leu			
	195	200	205
ctt aga cca aat gtt atg aat ata aaa gaa gaa tat ata aat aat gga			672
Leu Arg Pro Asn Val Met Asn Ile Lys Glu Glu Tyr Ile Asn Asn Gly			
	210	215	220
aag tta att aat ttt aag gaa tta aga gaa aca tta tta gct ata tgt			720
Lys Leu Ile Asn Phe Lys Glu Leu Arg Glu Thr Leu Leu Ala Ile Cys			
225	230	235	240
tct tat aaa aga tta ata gaa gca gat agt tta aca gaa aca aat tat			768
Ser Tyr Lys Arg Leu Ile Glu Ala Asp Ser Leu Thr Glu Thr Asn Tyr			
	245	250	255
ata gat gga tat gca aaa aaa aat ata ttt tat cat aat ata att atg			816
Ile Asp Gly Tyr Ala Lys Lys Asn Ile Phe Tyr His Asn Ile Ile Met			
	260	265	270
tca gat gag caa tct aaa tta tat aat atg gca gaa aaa tat gat tat			864
Ser Asp Glu Gln Ser Lys Leu Tyr Asn Met Ala Glu Lys Tyr Asp Tyr			
	275	280	285

aaa act gaa tta ggt ggt tta aaa act atg aga aga tta ata tct tca	912
Lys Thr Glu Leu Gly Gly Leu Lys Thr Met Arg Arg Leu Ile Ser Ser	
290 295 300	
ttt gct ttt tat gat ctt aaa ata aaa gga gat tta gat aat ata gaa	960
Phe Ala Phe Tyr Asp Leu Lys Ile Lys Gly Asp Leu Asp Asn Ile Glu	
305 310 315 320	
tat aat gat atg att aaa aga aaa ctt gct gaa ttt tcc gag ttt aca	1008
Tyr Asn Asp Met Ile Lys Arg Lys Leu Ala Glu Phe Ser Glu Phe Thr	
325 330 335	
aaa aat att aat ttc tct gaa tct ttt att gaa agt ttt aaa aat gat	1056
Lys Asn Ile Asn Phe Ser Glu Ser Phe Ile Glu Ser Phe Lys Asn Asp	
340 345 350	
aat ata aaa ata aaa act aat tta cca atc act gat ata aat aat tat	1104
Asn Ile Lys Ile Lys Thr Asn Leu Pro Ile Thr Asp Ile Asn Asn Tyr	
355 360 365	
aat ata tta tat caa tat tcg tgt aaa tat ata gaa act tgt aaa ata	1152
Asn Ile Leu Tyr Gln Tyr Ser Cys Lys Tyr Ile Glu Thr Cys Lys Ile	
370 375 380	
att tta aat tcg aga gga aaa gta tta ata ttt gaa cct tta gtt aat	1200
Ile Leu Asn Ser Arg Gly Lys Val Leu Ile Phe Glu Pro Leu Val Asn	
385 390 395 400	
ttt gaa gga ata tca agt tta aaa tgt tat ttt aat tgt ttt aat att	1248
Phe Glu Gly Ile Ser Ser Leu Lys Cys Tyr Phe Asn Cys Phe Asn Ile	
405 410 415	
tct tat att gaa tat tct agc aaa act tta aaa act aga gat aat gaa	1296
Ser Tyr Ile Glu Tyr Ser Ser Lys Thr Leu Lys Thr Arg Asp Asn Glu	
420 425 430	
tta aac gaa tat aat aat tat gaa aat aat aat ggt aaa aaa gta aaa	1344
Leu Asn Glu Tyr Asn Asn Tyr Glu Asn Asn Asn Gly Lys Lys Val Lys	
435 440 445	
gtt tgc ata ttt tct tac gct gga tct gaa ggc ata tca ttc aaa tgt	1392
Val Cys Ile Phe Ser Tyr Ala Gly Ser Glu Gly Ile Ser Phe Lys Cys	
450 455 460	
att aat gat ata att ata tta gat atg ccg tgg aat gaa tca gaa tta	1440
Ile Asn Asp Ile Ile Ile Leu Asp Met Pro Trp Asn Glu Ser Glu Leu	
465 470 475 480	
aaa caa ata ata gga aga tct ata aga tta aat tct cat aaa gat tta	1488
Lys Gln Ile Ile Gly Arg Ser Ile Arg Leu Asn Ser His Lys Asp Leu	
485 490 495	
cca caa gaa tat aga tat gtt aac gtt cat ttt tta ata tca tat acc	1536
Pro Gln Glu Tyr Arg Tyr Val Asn Val His Phe Leu Ile Ser Tyr Thr	
500 505 510	

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aac aac aga aaa tct gta gat aaa gaa ata tta gat att ata aaa gat      1584
Asn Asn Arg Lys Ser Val Asp Lys Glu Ile Leu Asp Ile Ile Lys Asp
      515                      520                      525

aaa caa ggt aaa ata aat gtt ata ttt gat tta tta aaa tca tca tct      1632
Lys Gln Gly Lys Ile Asn Val Ile Phe Asp Leu Leu Lys Ser Ser Ser
      530                      535                      540

atc gaa tct att cat aac aca tat aaa tat ata gaa cca gca gaa aat      1680
Ile Glu Ser Ile His Asn Thr Tyr Lys Tyr Ile Glu Pro Ala Glu Asn
545                      550                      555                      560

gaa ata att ttt gac aca ata cgt aaa act aga atg aaa gaa atg aac      1728
Glu Ile Ile Phe Asp Thr Ile Arg Lys Thr Arg Met Lys Glu Met Asn
      565                      570                      575

gta tct aat gtt att att aat ata aaa tta tat ccc ata tca tat tgt      1776
Val Ser Asn Val Ile Ile Asn Ile Lys Leu Tyr Pro Ile Ser Tyr Cys
      580                      585                      590

aaa gat tat gat aga gcc act ata tta aaa ggt tta tta aac aaa gac      1824
Lys Asp Tyr Asp Arg Ala Thr Ile Leu Lys Gly Leu Leu Asn Lys Asp
      595                      600                      605

aca aat ata gta tat aaa gat aat aca gct gta gca aaa tta atg att      1872
Thr Asn Ile Val Tyr Lys Asp Asn Thr Ala Val Ala Lys Leu Met Ile
      610                      615                      620

gat aaa gac aat ata cct ata ttt ata ata gag aat gat aca tta ata      1920
Asp Lys Asp Asn Ile Pro Ile Phe Ile Ile Glu Asn Asp Thr Leu Ile
625                      630                      635                      640

tat ata gca gat gat tat tat gaa tag      1947
Tyr Ile Ala Asp Asp Tyr Tyr Glu
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<210> 56

<211> 453

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (453)

<223>

<400> 56

atg aac gta aaa att ata gaa aaa tat caa cat ttt aaa gaa gat aaa 48
 Met Asn Val Lys Ile Ile Glu Lys Tyr Gln His Phe Lys Glu Asp Lys
 1 5 10 15

tat ata tca tat tat aat ata ttt ata tat ata cta gaa gaa tat att 96
 Tyr Ile Ser Tyr Tyr Asn Ile Phe Ile Tyr Ile Leu Glu Glu Tyr Ile
 20 25 30

ata ata tta tat aat tat aaa tta ata tat ata ata aat aaa aat tat 144
 Ile Ile Leu Tyr Asn Tyr Lys Leu Ile Tyr Ile Ile Asn Lys Asn Tyr
 35 40 45

ata caa tat atg tat tat aat tat tta ttt aaa aat aat ata tat tat 192
 Ile Gln Tyr Met Tyr Tyr Asn Tyr Leu Phe Lys Asn Asn Ile Tyr Tyr
 50 55 60

aat tta aaa tta tat aat aat aat aaa tta tta aaa cat aaa ccg tcg 240
 Asn Leu Lys Leu Tyr Asn Asn Asn Lys Leu Leu Lys His Lys Pro Ser
 65 70 75 80

aaa aaa gta cgc ttt tca tcc gaa cca cca aaa ctc cac att atg tat 288
 Lys Lys Val Arg Phe Ser Ser Glu Pro Pro Lys Leu His Ile Met Tyr
 85 90 95

gtt tgg tta tat gct gca aaa caa act cga aaa tta tac tgg gat aaa 336
 Val Trp Leu Tyr Ala Ala Lys Gln Thr Arg Lys Leu Tyr Trp Asp Lys
 100 105 110

ttt gcg att gat aga cat aga ttc aaa aga aga att aat gat ata gat 384
 Phe Ala Ile Asp Arg His Arg Phe Lys Arg Arg Ile Asn Asp Ile Asp
 115 120 125

ata tca ata tct tgg gtt tta act cca cat cac aga cat aaa att atg 432
 Ile Ser Ile Ser Trp Val Leu Thr Pro His His Arg His Lys Ile Met
 130 135 140

aaa cat ctt aag tta ata taa 453
 Lys His Leu Lys Leu Ile
 145 150

<210> 57

<211> 900

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(900)

<223>

<400> 57

atg gac gaa aca ata aat ttt aat aat aaa tca tgg gaa ata aaa aat	48
Met Asp Glu Thr Ile Asn Phe Asn Asn Lys Ser Trp Glu Ile Lys Asn	
1 5 10 15	
tta ata gct aaa ggt ggt ttt gga aca gta tat aaa tta tgc gaa aaa	96
Leu Ile Ala Lys Gly Gly Phe Gly Thr Val Tyr Lys Leu Cys Glu Lys	
20 25 30	
aat gat aat aat aac tgt tac gct att aaa ata gaa cca tcg gat aat	144
Asn Asp Asn Asn Asn Cys Tyr Ala Ile Lys Ile Glu Pro Ser Asp Asn	
35 40 45	
ggt ccg ttg ttt gta gaa atg cac ttt tat aaa aaa ata aat aaa aat	192
Gly Pro Leu Phe Val Glu Met His Phe Tyr Lys Lys Ile Asn Lys Asn	
50 55 60	
gaa ata aaa aat ttt att gat gcg aaa aat tta agt tat tta gga ata	240
Glu Ile Lys Asn Phe Ile Asp Ala Lys Asn Leu Ser Tyr Leu Gly Ile	
65 70 75 80	
cca tta cta tat cat aat ggt att ata aaa aaa gat aat ata gaa tat	288
Pro Leu Leu Tyr His Asn Gly Ile Ile Lys Lys Asp Asn Ile Glu Tyr	
85 90 95	
aga tat ata gta ata gat tat tat gaa ttt aat tta aat gat ata tta	336
Arg Tyr Ile Val Ile Asp Tyr Tyr Glu Phe Asn Leu Asn Asp Ile Leu	
100 105 110	
aaa aaa tat ata aaa tta cct ata ata aca ata tat aaa ata act ata	384
Lys Lys Tyr Ile Lys Leu Pro Ile Ile Thr Ile Tyr Lys Ile Thr Ile	
115 120 125	
caa ata tta tat ata tta gaa tat tta cac aaa aaa aaa tat aca cac	432
Gln Ile Leu Tyr Ile Leu Glu Tyr Leu His Lys Lys Lys Tyr Thr His	
130 135 140	
aat gat ata aaa aaa aat aat ata atg ttt aat tca tca tta act aaa	480
Asn Asp Ile Lys Lys Asn Asn Ile Met Phe Asn Ser Ser Leu Thr Lys	
145 150 155 160	
gta tat tta ata gat tac gga cta ata tat aat atg aat tct aat caa	528
Val Tyr Leu Ile Asp Tyr Gly Leu Ile Tyr Asn Met Asn Ser Asn Gln	
165 170 175	
gaa tat aat ata aaa tgt agt aat gat gga act cta gaa tat tta cca	576
Glu Tyr Asn Ile Lys Cys Ser Asn Asp Gly Thr Leu Glu Tyr Leu Pro	
180 185 190	
tta ata act cat tta ttt ggc tta aaa aca tac atg gga gat ata gag	624
Leu Ile Thr His Leu Phe Gly Leu Lys Thr Tyr Met Gly Asp Ile Glu	

195	200	205	
tct ctg atg tat aat att att gaa tgg tat agt gga agt ttg cct tgg			672
Ser Leu Met Tyr Asn Ile Ile Glu Trp Tyr Ser Gly Ser Leu Pro Trp			
210	215	220	
att aaa tat aaa aaa aaa aat gtt ata tta aaa aaa tta gat ttt ttc			720
Ile Lys Tyr Lys Lys Lys Asn Val Ile Leu Lys Lys Leu Asp Phe Phe			
225	230	235	240
aac act tgt tta act aat tca cca att gaa ata tgt aaa tta tat aat			768
Asn Thr Cys Leu Thr Asn Ser Pro Ile Glu Ile Cys Lys Leu Tyr Asn			
245	250	255	
tat ata aaa aat gct cct tct ata tat aat tat aat ttt ata cct gat			816
Tyr Ile Lys Asn Ala Pro Ser Ile Tyr Asn Tyr Asn Phe Ile Pro Asp			
260	265	270	
cat gat aaa tta att aat tat ttt gta act tat tta aaa tct aaa aat			864
His Asp Lys Leu Ile Asn Tyr Phe Val Thr Tyr Leu Lys Ser Lys Asn			
275	280	285	
ata aat tta aat gat aaa tta gtt ttt tgt aaa taa			900
Ile Asn Leu Asn Asp Lys Leu Val Phe Cys Lys			
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<210> 58

<211> 1599

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (1599)

<223>

<400> 58

atg aat cat att aaa aaa att tta aaa ata aaa agt gat aaa gat ata	48
Met Asn His Ile Lys Lys Ile Leu Lys Ile Lys Ser Asp Lys Asp Ile	
1	5 10 15

tta aat tac ata gat gca tta aat tat aat gat tta gaa aat ata ata	96
Leu Asn Tyr Ile Asp Ala Leu Asn Tyr Asn Asp Leu Glu Asn Ile Ile	
20	25 30

cag aca tta gat aat agt tat tat gat aaa gaa gct tta att agt gat	144
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Gln Thr Leu Asp Asn Ser Tyr Tyr Asp Lys Glu Ala Leu Ile Ser Asp	
35 40 45	
aaa aaa tat gat tta ata aga aat ttt ata aat aat aag tat cct aat	192
Lys Lys Tyr Asp Leu Ile Arg Asn Phe Ile Asn Asn Lys Tyr Pro Asn	
50 55 60	
gaa tct ttg tgt aaa aaa ata ggt tat act ccg gaa gat aaa gta cga	240
Glu Ser Leu Cys Lys Lys Ile Gly Tyr Thr Pro Glu Asp Lys Val Arg	
65 70 75 80	
tta aag tat ttt atg ggt agt gaa aat aaa act tat aaa tca gat aat	288
Leu Lys Tyr Phe Met Gly Ser Glu Asn Lys Thr Tyr Lys Ser Asp Asn	
85 90 95	
aaa tta tta agt tgg ata aac gaa tat cat act aat ata tta gta tta	336
Lys Leu Leu Ser Trp Ile Asn Glu Tyr His Thr Asn Ile Leu Val Leu	
100 105 110	
tct gca aaa gca gac gga ata tca gta tta tgg gat ata aaa aat aat	384
Ser Ala Lys Ala Asp Gly Ile Ser Val Leu Trp Asp Ile Lys Asn Asn	
115 120 125	
aaa ata tat agt aga ggt gat ggt aaa tat gga aaa gat ata aca cat	432
Lys Ile Tyr Ser Arg Gly Asp Gly Lys Tyr Gly Lys Asp Ile Thr His	
130 135 140	
ttt att aat tat ttt aat ttt tca gat gat aaa aat ata aat aac aat	480
Phe Ile Asn Tyr Phe Asn Phe Ser Asp Asp Lys Asn Ile Asn Asn Asn	
145 150 155 160	
gat ata ttt aaa aat aat ata aat ttt gtt aga ggt gaa tta gtt ata	528
Asp Ile Phe Lys Asn Asn Ile Asn Phe Val Arg Gly Glu Leu Val Ile	
165 170 175	
gat aaa cct gaa aat aga aat ata gta gca ggt caa ata aat aga aat	576
Asp Lys Pro Glu Asn Arg Asn Ile Val Ala Gly Gln Ile Asn Arg Asn	
180 185 190	
gaa att gat aaa gaa acc gca tta aaa ata tat ttt gta gca tac gaa	624
Glu Ile Asp Lys Glu Thr Ala Leu Lys Ile Tyr Phe Val Ala Tyr Glu	
195 200 205	
ata tta gaa cca aga atg aca caa ctc gaa caa ttt cac aaa ctt aca	672
Ile Leu Glu Pro Arg Met Thr Gln Leu Glu Gln Phe His Lys Leu Thr	
210 215 220	
gag aat agt ata aga act gtt aaa tat gat tct gtt gat tat aat att	720
Glu Asn Ser Ile Arg Thr Val Lys Tyr Asp Ser Val Asp Tyr Asn Ile	
225 230 235 240	
tca tac gaa caa tta agt gaa ata tat aat aat tat acg caa gaa tta	768
Ser Tyr Glu Gln Leu Ser Glu Ile Tyr Asn Asn Tyr Thr Gln Glu Leu	
245 250 255	
tcg tat tac ata gat ggt att ata ata aga aat aat aat tta aat cca	816
Ser Tyr Tyr Ile Asp Gly Ile Ile Ile Arg Asn Asn Asn Leu Asn Pro	

260	265	270	
gtt att aaa tct ggt aat cca cct tgg tca ata tgt ttt aag gaa aca Val Ile Lys Ser Gly Asn Pro Pro Trp Ser Ile Cys Phe Lys Glu Thr 275 280 285			864
gat aaa ata tat att act act gtt aaa gaa atc aaa tgg gat ata tca Asp Lys Ile Tyr Ile Thr Thr Val Lys Glu Ile Lys Trp Asp Ile Ser 290 295 300			912
aaa aaa aat ata tat ata cct aaa gca ata tta gag cct ata att ata Lys Lys Asn Ile Tyr Ile Pro Lys Ala Ile Leu Glu Pro Ile Ile Ile 305 310 315 320			960
gat aat tcg act att aat gct gtt gct tgt cac aat gct aaa tat gta Asp Asn Ser Thr Ile Asn Ala Val Ala Cys His Asn Ala Lys Tyr Val 325 330 335			1008
att gat aaa aaa att aac act ggt tca ata gta gaa ata gta aag aaa Ile Asp Lys Lys Ile Asn Thr Gly Ser Ile Val Glu Ile Val Lys Lys 340 345 350			1056
ggg gga gtt ata ccg ata att aat aat gta ata aaa gaa tca gat ata Gly Gly Val Ile Pro Ile Ile Asn Asn Val Ile Lys Glu Ser Asp Ile 355 360 365			1104
gaa att ata tta ccc gat ggt att tta tct ggt gta aat att ata ttt Glu Ile Ile Leu Pro Asp Gly Ile Leu Ser Gly Val Asn Ile Ile Phe 370 375 380			1152
act ggt gtt aac aaa gaa agt gaa att aaa aga ata tta tac ttt ttt Thr Gly Val Asn Lys Glu Ser Glu Ile Lys Arg Ile Leu Tyr Phe Phe 385 390 395 400			1200
aaa tca ttt gga tat aaa aat att aat aaa aca ata att gat aaa tta Lys Ser Phe Gly Tyr Lys Asn Ile Asn Lys Thr Ile Ile Asp Lys Leu 405 410 415			1248
tat atg tta gga tat gta aat ata tta aaa tat tta gaa aaa gat att Tyr Met Leu Gly Tyr Val Asn Ile Leu Lys Tyr Leu Glu Lys Asp Ile 420 425 430			1296
aat ata gaa gaa tat aat aat aaa aaa act tat att aaa tta ttg gaa Asn Ile Glu Glu Tyr Asn Asn Lys Lys Thr Tyr Ile Lys Leu Leu Glu 435 440 445			1344
gta att aaa gat ata aaa agt aaa aat tat aat atc gta gac ata tta Val Ile Lys Asp Ile Lys Ser Lys Asn Tyr Asn Ile Val Asp Ile Leu 450 455 460			1392
aca gca tta tct cta gat agt ata tca aaa tca aga gtt tgt gct att Thr Ala Leu Ser Leu Asp Ser Ile Ser Lys Ser Arg Val Cys Ala Ile 465 470 475 480			1440
tat aat gag ttt cca gat ttt ttg aaa gat aaa aat gaa aaa gat tat Tyr Asn Glu Phe Pro Asp Phe Leu Lys Asp Lys Asn Glu Lys Asp Tyr 485 490 495			1488

agt tca ata aac ggt att gga aaa tct ata tca aaa aaa att aat gat 1536
 Ser Ser Ile Asn Gly Ile Gly Lys Ser Ile Ser Lys Lys Ile Asn Asp
 500 505 510

aat att ata aat aat tac gaa tat ata ata aat att tta aac gct tta 1584
 Asn Ile Ile Asn Asn Tyr Glu Tyr Ile Ile Asn Ile Leu Asn Ala Leu
 515 520 525

aat ata aag tat taa 1599
 Asn Ile Lys Tyr
 530

<210> 59

<211> 687

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(687)

<223>

<400> 59
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 Met Ser Asp Asn Ile Lys Cys Lys Tyr Cys Asn Ser Phe Asn Ile Ile
 1 5 10 15

aaa aat aaa gat ata tat tca tgt tgt gat tgc tca aat tgt tat aca 96
 Lys Asn Lys Asp Ile Tyr Ser Cys Cys Asp Cys Ser Asn Cys Tyr Thr
 20 25 30

aca tcg tca aaa aga ata aca aca ata agt agt gct tca aac aat aaa 144
 Thr Ser Ser Lys Arg Ile Thr Thr Ile Ser Ser Ala Ser Asn Asn Lys
 35 40 45

act ata cat tgt aat aat gtt tta aaa gaa ata tca aat acc agt att 192
 Thr Ile His Cys Asn Asn Val Leu Lys Glu Ile Ser Asn Thr Ser Ile
 50 55 60

tca tat gat ata gta gat ggt ttt cta aaa cta atc aat gat aat aat 240
 Ser Tyr Asp Ile Val Asp Gly Phe Leu Lys Leu Ile Asn Asp Asn Asn
 65 70 75 80

tta aat aca aaa agt ata aca act gcg tta ggt tct gaa tat tta aaa 288
 Leu Asn Thr Lys Ser Ile Thr Thr Ala Leu Gly Ser Glu Tyr Leu Lys

85										90										95																			
tca	aaa	ggt	ata	aaa	aat	tat	aga	act	acg	cat	aaa	tta	att	aat	atg		336																						
Ser	Lys	Gly	Ile	Lys	Asn	Tyr	Arg	Thr	Thr	His	Lys	Leu	Ile	Asn	Met																								
100										105										110																			
tct	cta	tcg	gat	ggt	aat	aat	tgt	ata	tta	act	aaa	gac	gat	atc	ttt		384																						
Ser	Leu	Ser	Asp	Gly	Asn	Asn	Cys	Ile	Leu	Thr	Lys	Asp	Asp	Ile	Phe																								
115										120										125																			
aga	att	aat	ata	att	ttt	gag	gat	ttt	aca	caa	ttt	ata	tat	aaa	aat		432																						
Arg	Ile	Asn	Ile	Ile	Phe	Glu	Asp	Phe	Thr	Gln	Phe	Ile	Tyr	Lys	Asn																								
130										135										140																			
aat	tat	aca	aaa	act	ata	tct	tac	gaa	ttc	tgt	tta	gat	aga	ata	ttt		480																						
Asn	Tyr	Thr	Lys	Thr	Ile	Ser	Tyr	Glu	Phe	Cys	Leu	Asp	Arg	Ile	Phe																								
145										150										155										160									
gat	att	ctt	aat	ata	aat	tat	gta	ata	aat	ttc	aat	tat	agc	aaa	cta		528																						
Asp	Ile	Leu	Asn	Ile	Asn	Tyr	Val	Ile	Asn	Phe	Asn	Tyr	Ser	Lys	Leu																								
165										170										175																			
aat	aaa	aga	gac	gat	aaa	cca	gaa	ata	tgg	aat	aaa	tat	ata	att	gaa		576																						
Asn	Lys	Arg	Asp	Asp	Lys	Pro	Glu	Ile	Trp	Asn	Lys	Tyr	Ile	Ile	Glu																								
180										185										190																			
tta	tat	aat	aaa	tca	ttg	att	aaa	tct	aat	aat	aaa	ttt	ata	ttt	aga		624																						
Leu	Tyr	Asn	Lys	Ser	Leu	Ile	Lys	Ser	Asn	Asn	Lys	Phe	Ile	Phe	Arg																								
195										200										205																			
cca	aat	aat	att	att	ttt	aat	gaa	tat	ata	aaa	aat	aat	ata	tgt	ttg		672																						
Pro	Asn	Asn	Ile	Ile	Phe	Asn	Glu	Tyr	Ile	Lys	Asn	Asn	Ile	Cys	Leu																								
210										215										220																			
cgt	aat	att	att	taa													687																						
Arg	Asn	Ile	Ile																																				
225																																							

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<211> 3906

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

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att cca ata gtt att gat tct att gga aat gat aac gaa aat agt gta      96
Ile Pro Ile Val Ile Asp Ser Ile Gly Asn Asp Asn Glu Asn Ser Val
          20          25          30

aaa agt cct aaa tta ggc gga act aaa ttc aat gtg tgt tcg aca tgc      144
Lys Ser Pro Lys Leu Gly Gly Thr Lys Phe Asn Val Cys Ser Thr Cys
          35          40          45

aat tta aca aga gaa aat ggc gac atg ggt cat cca gga aga act cct      192
Asn Leu Thr Arg Glu Asn Gly Asp Met Gly His Pro Gly Arg Thr Pro
          50          55          60

tta aga gat atg tgt att gta aaa tct ggt tgt att aaa aat gtt ttg      240
Leu Arg Asp Met Cys Ile Val Lys Ser Gly Cys Ile Lys Asn Val Leu
65          70          75          80

gat aca cta aat aca tta aaa tta tgt aat agt tgt ttt atg ata aaa      288
Asp Thr Leu Asn Thr Leu Lys Leu Cys Asn Ser Cys Phe Met Ile Lys
          85          90          95

aat aat aca ata ttt tca gaa ata att gaa aaa tat aat agc gaa tat      336
Asn Asn Thr Ile Phe Ser Glu Ile Ile Glu Lys Tyr Asn Ser Glu Tyr
          100          105          110

aat att aat tta aaa aaa gaa ata tta tca tta tta aaa aac aat cgc      384
Asn Ile Asn Leu Lys Lys Glu Ile Leu Ser Leu Leu Lys Asn Asn Arg
          115          120          125

caa ggt ggg gta aaa tgt aat aat gaa aat tgt caa aat ata aca gga      432
Gln Gly Gly Val Lys Cys Asn Asn Glu Asn Cys Gln Asn Ile Thr Gly
          130          135          140

aca tat aaa tat aat caa aaa aaa tca tat ttt tac gta aaa aaa caa      480
Thr Tyr Lys Tyr Asn Gln Lys Lys Ser Tyr Phe Tyr Val Lys Lys Gln
145          150          155          160

aaa gat gaa atc att ctt aat aaa aca gtt tat act atg tta ctt gga      528
Lys Asp Glu Ile Ile Leu Asn Lys Thr Val Tyr Thr Met Leu Leu Gly
          165          170          175

att cct gat ata att tat aaa tgt gtt act gta cca tac gca gat tct      576
Ile Pro Asp Ile Ile Tyr Lys Cys Val Thr Val Pro Tyr Ala Asp Ser
          180          185          190

caa tta caa cct tat aaa gca ttt tac gct aat aat att ata att cct      624
Gln Leu Gln Pro Tyr Lys Ala Phe Tyr Ala Asn Asn Ile Ile Ile Pro
          195          200          205

gta tta cca tct aga cct cca aat tat ttt gat aat aaa gaa tct cat      672
Val Leu Pro Ser Arg Pro Pro Asn Tyr Phe Asp Asn Lys Glu Ser His

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gtt atg aca aca aaa ttg ggt caa tta gtt ggc aca tca caa aaa tct			720
Val Met Thr Thr Lys Leu Gly Gln Leu Val Gly Thr Ser Gln Lys Ser			
225	230	235	240
aga gat gaa agt gaa gtt caa aaa ata tat aat gat att gat aat gtt			768
Arg Asp Glu Ser Glu Val Gln Lys Ile Tyr Asn Asp Ile Asp Asn Val			
245	250		255
aaa cca aat tct cca tat aaa act agt aac atg tta gtt acg tta aat			816
Lys Pro Asn Ser Pro Tyr Lys Thr Ser Asn Met Leu Val Thr Leu Asn			
260	265		270
ata caa gtt ggt ggt aac aaa aaa gga agt ata gtt aga tct aat ata			864
Ile Gln Val Gly Gly Asn Lys Lys Gly Ser Ile Val Arg Ser Asn Ile			
275	280		285
atg gct aga aga gcc gat aac aca gct aga tgt gta gct ggt cca act			912
Met Ala Arg Arg Ala Asp Asn Thr Ala Arg Cys Val Ala Gly Pro Thr			
290	295		300
atg gac aaa ata gga tat ata tat ata cca aaa ata gtg gct aag aca			960
Met Asp Lys Ile Gly Tyr Ile Tyr Ile Pro Lys Ile Val Ala Lys Thr			
305	310	315	320
tta aca tca tca ata tat tat aat aga ttt act gaa aat atg att aaa			1008
Leu Thr Ser Ser Ile Tyr Tyr Asn Arg Phe Thr Glu Asn Met Ile Lys			
325	330		335
gat atg tta gtt aat gat aat aac aaa att aaa tat ata tta tta tat			1056
Asp Met Leu Val Asn Asp Asn Asn Lys Ile Lys Tyr Ile Leu Leu Tyr			
340	345		350
aga tat gat caa tta aaa ccc aca aca tta tta aaa ata aaa cca caa			1104
Arg Tyr Asp Gln Leu Lys Pro Thr Thr Leu Leu Lys Ile Lys Pro Gln			
355	360		365
tct aga ctc aat aat tta tta aaa atg aaa tat gga gat aga ata gaa			1152
Ser Arg Leu Asn Asn Leu Leu Lys Met Lys Tyr Gly Asp Arg Ile Glu			
370	375		380
gtt gaa tta gaa gat aat gat gta ata tta ttt agt aga caa cca tct			1200
Val Glu Leu Glu Asp Asn Asp Val Ile Leu Phe Ser Arg Gln Pro Ser			
385	390	395	400
tta cat aaa ttt aat att cag gca ggt ata tgt aaa ata tgg gat aat			1248
Leu His Lys Phe Asn Ile Gln Ala Gly Ile Cys Lys Ile Trp Asp Asn			
405	410		415
aat aca ata gca aca cct acg ccg ata gca aat tct atg aat tta gat			1296
Asn Thr Ile Ala Thr Pro Thr Pro Ile Ala Asn Ser Met Asn Leu Asp			
420	425		430
tat gat ggt gat gaa atg aat gta tat aaa tta aaa tca tct gtg tca			1344
Tyr Asp Gly Asp Glu Met Asn Val Tyr Lys Leu Lys Ser Ser Val Ser			
435	440		445

gta gaa tca tta ttt act atg tta tct gtt aat atg att aaa aat aat	1392
Val Glu Ser Leu Phe Thr Met Leu Ser Val Asn Met Ile Lys Asn Asn	
450 455 460	
tat aat ttt tcg cca ata ttt ggg tta att caa gat caa ata ata tca	1440
Tyr Asn Phe Ser Pro Ile Phe Gly Leu Ile Gln Asp Gln Ile Ile Ser	
465 470 475 480	
gta cat atg ata tat aat att aaa gaa ttt tct cta caa gat gtt att	1488
Val His Met Ile Tyr Asn Ile Lys Glu Phe Ser Leu Gln Asp Val Ile	
485 490 495	
tat att tta gga gaa tat agt tat tat ata aga gat ata aat aaa aaa	1536
Tyr Ile Leu Gly Glu Tyr Ser Tyr Tyr Ile Arg Asp Ile Asn Lys Lys	
500 505 510	
aca tat tct gga aaa gaa tta tta tca tta tta ttt cca gat aat ctt	1584
Thr Tyr Ser Gly Lys Glu Leu Leu Ser Leu Leu Phe Pro Asp Asn Leu	
515 520 525	
aca tat gaa ggt atg ttt gat aat ggt aaa att aca tta tct aat ata	1632
Thr Tyr Glu Gly Met Phe Asp Asn Gly Lys Ile Thr Leu Ser Asn Ile	
530 535 540	
tca tct aaa caa gtt gta gct cag tca tat gaa tca ttt tca aat att	1680
Ser Ser Lys Gln Val Val Ala Gln Ser Tyr Glu Ser Phe Ser Asn Ile	
545 550 555 560	
cta tct caa tta aaa aat aat att tat gct gtg tat ttt ata gat gta	1728
Leu Ser Gln Leu Lys Asn Asn Ile Tyr Ala Val Tyr Phe Ile Asp Val	
565 570 575	
ata tta tat gta gct aga aat ttt ata aat ttg tat agt ttt agc gtt	1776
Ile Leu Tyr Val Ala Arg Asn Phe Ile Asn Leu Tyr Ser Phe Ser Val	
580 585 590	
tcg tta aaa gat att att cca gat ata tat ttt att gac gat gtt caa	1824
Ser Leu Lys Asp Ile Ile Pro Asp Ile Tyr Phe Ile Asp Asp Val Gln	
595 600 605	
gaa tac att aat aat tgt tgt aaa gtt ata caa tat gtt gcg cta caa	1872
Glu Tyr Ile Asn Asn Cys Cys Lys Val Ile Gln Tyr Val Ala Leu Gln	
610 615 620	
tat tat att aaa aaa gat cat ata ata aaa tta act tat gat gaa atg	1920
Tyr Tyr Ile Lys Lys Asp His Ile Ile Lys Leu Thr Tyr Asp Glu Met	
625 630 635 640	
gaa aat ata aga ata caa aac ggt aat aat ata ata tct aat gtt aaa	1968
Glu Asn Ile Arg Ile Gln Asn Gly Asn Asn Ile Ile Ser Asn Val Lys	
645 650 655	
aat aaa ata aat aat cta ttt aaa gat gag aaa tta aat act ata atg	2016
Asn Lys Ile Asn Asn Leu Phe Lys Asp Glu Lys Leu Asn Thr Ile Met	
660 665 670	

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Met Met Lys Asn Ser Gly Tyr Lys Ile Thr Leu Asp Glu Leu Val Thr	
675 680 685	
gtg ttg ggt tgt act gga caa caa gga att gat tca gat gat ata ccg	2112
Val Leu Gly Cys Thr Gly Gln Gln Gly Ile Asp Ser Asp Asp Ile Pro	
690 695 700	
aaa ccc gga att atg gga aga gta ttt gat tca aca tta cct gga agt	2160
Lys Pro Gly Ile Met Gly Arg Val Phe Asp Ser Thr Leu Pro Gly Ser	
705 710 715 720	
tta gac ata gaa tca tta gga tat gta aaa tca tca act ata aaa ggt	2208
Leu Asp Ile Glu Ser Leu Gly Tyr Val Lys Ser Ser Thr Ile Lys Gly	
725 730 735	
tta aaa ttc gaa gaa ttg gca ttt cat aca aaa tac aat tca att aaa	2256
Leu Lys Phe Glu Glu Leu Ala Phe His Thr Lys Tyr Asn Ser Ile Lys	
740 745 750	
aaa ata tta aaa ata aca tgc gag aca tca tcg gca ggt agt att ggt	2304
Lys Ile Leu Lys Ile Thr Cys Glu Thr Ser Ser Ala Gly Ser Ile Gly	
755 760 765	
aga aaa tta gtt aaa ttt atg gaa ggt gtt aaa gta gat cat ttg ggt	2352
Arg Lys Leu Val Lys Phe Met Glu Gly Val Lys Val Asp His Leu Gly	
770 775 780	
aga tcc gta tta aat aat gat att ata tgg tat aat aca aat cat att	2400
Arg Ser Val Leu Asn Asn Asp Ile Ile Trp Tyr Asn Thr Asn His Ile	
785 790 795 800	
aaa atg aca ggt ggt gat ata tct aaa gta gaa ata tta act cct agt	2448
Lys Met Thr Gly Gly Asp Ile Ser Lys Val Glu Ile Leu Thr Pro Ser	
805 810 815	
tta gaa atg gta aat tac aca ctt ata aaa gaa ata tat aac gaa aat	2496
Leu Glu Met Val Asn Tyr Thr Leu Ile Lys Glu Ile Tyr Asn Glu Asn	
820 825 830	
aaa aaa tat tta tta act aat ttt aat act gaa ata aat aaa gaa ttt	2544
Lys Lys Tyr Leu Leu Thr Asn Phe Asn Thr Glu Ile Asn Lys Glu Phe	
835 840 845	
att ttt cca att aat ata aaa tta gag att caa tca ttt tat aat aaa	2592
Ile Phe Pro Ile Asn Ile Lys Leu Glu Ile Gln Ser Phe Tyr Asn Lys	
850 855 860	
aaa tca act cct ata tct gat ata gat gca tta aaa tta att gat gaa	2640
Lys Ser Thr Pro Ile Ser Asp Ile Asp Ala Leu Lys Leu Ile Asp Glu	
865 870 875 880	
ttt ata gaa tat gtc tat att aat ata tat ttt tac aac att aca ata	2688
Phe Ile Glu Tyr Val Tyr Ile Asn Ile Tyr Phe Tyr Asn Ile Thr Ile	
885 890 895	
gat tgg ttt aaa tat att tta tat aca tat cta gat aga aat aca gta	2736

Asp Trp Phe Lys Tyr Ile Leu Tyr Thr Tyr Leu Asp Arg Asn Thr Val	
900 905 910	
gaa aaa tat aat aaa aaa tat tct aaa gaa tta tta aat tat ata ata	2784
Glu Lys Tyr Asn Lys Lys Tyr Ser Lys Glu Leu Leu Asn Tyr Ile Ile	
915 920 925	
aat aaa att aaa tta aaa tta cta aat tca tta aat cca ggt tat cct	2832
Asn Lys Ile Lys Leu Lys Leu Leu Asn Ser Leu Asn Pro Gly Tyr Pro	
930 935 940	
att gga tta gaa tac gca aat aat att caa gaa aaa ttt aca caa caa	2880
Ile Gly Leu Glu Tyr Ala Asn Asn Ile Gln Glu Lys Phe Thr Gln Gln	
945 950 955 960	
tca tta tcg tct ttt cac act act aaa aaa tca gga aca gca tca acc	2928
Ser Leu Ser Ser Phe His Thr Thr Lys Lys Ser Gly Thr Ala Ser Thr	
965 970 975	
caa tta gga ttt tcg gat ttt aaa gat act gta gaa ttg agt aaa aaa	2976
Gln Leu Gly Phe Ser Asp Phe Lys Asp Thr Val Glu Leu Ser Lys Lys	
980 985 990	
aat aaa aga gat att gta att gct ttt aca aca cac aga tat aaa tta	3024
Asn Lys Arg Asp Ile Val Ile Ala Phe Thr Thr His Arg Tyr Lys Leu	
995 1000 1005	
gaa gat att aag aag caa atg gaa tac ttg tgt tta aag aat ttt	3069
Glu Asp Ile Lys Lys Gln Met Glu Tyr Leu Cys Leu Lys Asn Phe	
1010 1015 1020	
aat cca aaa ata aat atc ata gaa gaa act gaa tct gat atg gta	3114
Asn Pro Lys Ile Asn Ile Ile Glu Glu Thr Glu Ser Asp Met Val	
1025 1030 1035	
ata agt gta agt ata aaa aaa tac tat att aat gac aaa ata tct	3159
Ile Ser Val Ser Ile Lys Lys Tyr Tyr Ile Asn Asp Lys Ile Ser	
1040 1045 1050	
tta tat cat tac tta caa atg tat ata gaa tat tta gaa aat aat	3204
Leu Tyr His Tyr Leu Gln Met Tyr Ile Glu Tyr Leu Glu Asn Asn	
1055 1060 1065	
aaa att att aaa ggc tat tgg ata act atg aaa tta aaa gat aat	3249
Lys Ile Ile Lys Gly Tyr Trp Ile Thr Met Lys Leu Lys Asp Asn	
1070 1075 1080	
gat ata aca gtg ata ttt gga gtt aaa att aaa act cct tat aat	3294
Asp Ile Thr Val Ile Phe Gly Val Lys Ile Lys Thr Pro Tyr Asn	
1085 1090 1095	
ata aat aaa ata tat atg ata aaa agt ata cca gtt tcg gtt tct	3339
Ile Asn Lys Ile Tyr Met Ile Lys Ser Ile Pro Val Ser Val Ser	
1100 1105 1110	
aaa ggt aaa ata agt aac ata aat tta gag ata gaa gat gtt aaa	3384
Lys Gly Lys Ile Ser Asn Ile Asn Leu Glu Ile Glu Asp Val Lys	

1115	1120	1125	
atg tat aat aat aat ttg	gaa gaa caa aat ggt	tat aga tta aaa	3429
Met Tyr Asn Asn Asn Leu	Glu Glu Gln Asn Gly Tyr	Arg Leu Lys	
1130	1135	1140	
ttc tat att gat agt gtc	aca gat ttt att aat ttt	gat acg aga	3474
Phe Tyr Ile Asp Ser Val	Thr Asp Phe Ile Asn Phe	Asp Thr Arg	
1145	1150	1155	
gat gtt tat ctg gaa tta	ggt ccg tgg ttt acg	tat aat tcg ttt	3519
Asp Val Tyr Leu Glu Leu	Gly Pro Trp Phe Thr Tyr	Asn Ser Phe	
1160	1165	1170	
ggc ata caa ttt gct gaa	tat tct att aga cgt	aga tta gtt tcg	3564
Gly Ile Gln Phe Ala Glu	Tyr Ser Ile Arg Arg	Arg Leu Val Ser	
1175	1180	1185	
tct aca aaa gaa aaa agt	atg gaa ata tgt tat	ata ata tta tcg	3609
Ser Thr Lys Glu Lys Ser	Met Glu Ile Cys Tyr	Ile Ile Leu Ser	
1190	1195	1200	
aaa ttg atg tgt tta tct	tcc gaa atg tat aat	ata aaa aga ata	3654
Lys Leu Met Cys Leu Ser	Ser Glu Met Tyr Asn	Ile Lys Arg Ile	
1205	1210	1215	
aga gag ggt aaa caa aat	gtt ata aaa tca gca	ata cat ggt agt	3699
Arg Glu Gly Lys Gln Asn	Val Ile Lys Ser Ala	Ile His Gly Ser	
1220	1225	1230	
tcg gat gct ata aca aca	gct gca tat aat aat	ata ata gat cca	3744
Ser Asp Ala Ile Thr Thr	Ala Ala Tyr Asn Asn	Ile Ile Asp Pro	
1235	1240	1245	
aac aat gat ata tat tct	caa ata tta tca agt	caa att atg aaa	3789
Asn Asn Asp Ile Tyr Ser	Gln Ile Leu Ser Ser	Gln Ile Met Lys	
1250	1255	1260	
tta gga cat gga tat tat	gat tgt tat tta aat	tta aat aga tat	3834
Leu Gly His Gly Tyr Tyr	Asp Cys Tyr Leu Asn	Leu Asn Arg Tyr	
1265	1270	1275	
gat tct att aac ata aat	tct gtc acc gaa caa	gat ata aat ata	3879
Asp Ser Ile Asn Ile Asn	Ser Val Thr Glu Gln	Asp Ile Asn Ile	
1280	1285	1290	
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Thr Ser Glu Ile Ile Glu	Asn Phe		
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<210> 61

<211> 483

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(483)

<223>

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1 5 10 15	
aga ata aca tca cca atc gat aat att aga tat att ttt gat ctt att	96
Arg Ile Thr Ser Pro Ile Asp Asn Ile Arg Tyr Ile Phe Asp Leu Ile	
20 25 30	
aac aca agt ggt aat ggt gaa att acg gca gaa gaa tta cta aat ttt	144
Asn Thr Ser Gly Asn Gly Glu Ile Thr Ala Glu Glu Leu Leu Asn Phe	
35 40 45	
tta att gtt att gat cca act ata aat tta tct gat gtt cgt gcg tta	192
Leu Ile Val Ile Asp Pro Thr Ile Asn Leu Ser Asp Val Arg Ala Leu	
50 55 60	
att gcc aca tat gat ttg aat aat aac aat acg tta agt ttt gat gaa	240
Ile Ala Thr Tyr Asp Leu Asn Asn Asn Asn Thr Leu Ser Phe Asp Glu	
65 70 75 80	
ttt gtt cca ata ata ggt att aat ata act gat gaa aaa tta aga gaa	288
Phe Val Pro Ile Ile Gly Ile Asn Ile Thr Asp Glu Lys Leu Arg Glu	
85 90 95	
gca ttt gat tct ata aca act gat ggt gat gtc gat ctt gat aaa ttt	336
Ala Phe Asp Ser Ile Thr Thr Asp Gly Asp Val Asp Leu Asp Lys Phe	
100 105 110	
aga aca tat tat aat tta tta caa att act ccc ata tat aga cat act	384
Arg Thr Tyr Tyr Asn Leu Leu Gln Ile Thr Pro Ile Tyr Arg His Thr	
115 120 125	
aac gat caa tat ata gat ata ata att aga atg atc gga agt agt caa	432
Asn Asp Gln Tyr Ile Asp Ile Ile Ile Arg Met Ile Gly Ser Ser Gln	
130 135 140	
gaa gaa ttt ata gca ttt tgg aat tac ata aat act caa gta aat gga	480
Glu Glu Phe Ile Ala Phe Trp Asn Tyr Ile Asn Thr Gln Val Asn Gly	
145 150 155 160	
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<210> 62

<211> 540

<212> DNA

<213> Amsacta moorei entomopoxvirus

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<223>

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1 5 10 15	

gtt gtt aca gaa att tct att caa tta gaa agc aaa caa ata aat aat	96
Val Val Thr Glu Ile Ser Ile Gln Leu Glu Ser Lys Gln Ile Asn Asn	
20 25 30	

aat att aga caa gaa att gta tca aat ata aaa aat aat ata ata aat	144
Asn Ile Arg Gln Glu Ile Val Ser Asn Ile Lys Asn Asn Ile Ile Asn	
35 40 45	

aaa act agc ggt gtt aat tat att tta tca gtt gat tat caa tca ata	192
Lys Thr Ser Gly Val Asn Tyr Ile Leu Ser Val Asp Tyr Gln Ser Ile	
50 55 60	

tta aat aat gaa tta cca tta tta aga tta aat aat gta tat aca caa	240
Leu Asn Asn Glu Leu Pro Leu Leu Arg Leu Asn Asn Val Tyr Thr Gln	
65 70 75 80	

gaa tta gtt gtt aaa tta ccc gta aca tat cta tat ttt aca aaa aat	288
Glu Leu Val Val Lys Leu Pro Val Thr Tyr Leu Tyr Phe Thr Lys Asn	
85 90 95	

caa ata ata aaa gct tat ttg aca att att gaa gga gat aat cca cat	336
Gln Ile Ile Lys Ala Tyr Leu Thr Ile Ile Glu Gly Asp Asn Pro His	
100 105 110	

gta gtt gca tat aac aaa tat ata tat tgt aat ata att tta gat cat	384
Val Val Ala Tyr Asn Lys Tyr Ile Tyr Cys Asn Ile Ile Leu Asp His	
115 120 125	

aat ttc act ata aat atg tca gaa aaa tta tta ata ttt aag aac aaa	432
Asn Phe Thr Ile Asn Met Ser Glu Lys Leu Leu Ile Phe Lys Asn Lys	
130 135 140	

gaa tat aaa aat aga gat gaa tgt tat gta aaa ata atc gat ata tat 480
 Glu Tyr Lys Asn Arg Asp Glu Cys Tyr Val Lys Ile Ile Asp Ile Tyr
 145 150 155 160

agt tca gaa aaa aat aat aaa ata cca tgc aaa ggt att ttg caa gac 528
 Ser Ser Glu Lys Asn Asn Lys Ile Pro Cys Lys Gly Ile Leu Gln Asp
 165 170 175

gaa gaa ata taa 540
 Glu Glu Ile

<210> 63

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<212> DNA

<213> Amsacta moorei entomopoxvirus

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<221> exon

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<223>

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tgg tta gat gtg ata gat aaa aaa caa tta gaa tat gct cat cat aaa 96
 Trp Leu Asp Val Ile Asp Lys Lys Gln Leu Glu Tyr Ala His His Lys
 20 25 30

tta aaa aat gaa tct att att aaa cca tct ata aat aat ata ttt aaa 144
 Leu Lys Asn Glu Ser Ile Ile Lys Pro Ser Ile Asn Asn Ile Phe Lys
 35 40 45

tgt ttt aaa tat ttt aat ccc gat caa gtt aaa gta att att tta ggt 192
 Cys Phe Lys Tyr Phe Asn Pro Asp Gln Val Lys Val Ile Ile Leu Gly
 50 55 60

cag gat cct tat cct act gtt gga atg gct gat ggt tta gca ttt tcc 240
 Gln Asp Pro Tyr Pro Thr Val Gly Met Ala Asp Gly Leu Ala Phe Ser
 65 70 75 80

tgt tct aat aat agt aat tat att cct aaa tct tta caa aac ata ata 288
 Cys Ser Asn Asn Ser Asn Tyr Ile Pro Lys Ser Leu Gln Asn Ile Ile

85	90	95	
aaa gaa ata tta aaa caa aat aaa aaa tat gat atg atg aaa aat att			336
Lys Glu Ile Leu Lys Gln Asn Lys Lys Tyr Asp Met Met Lys Asn Ile			
100	105	110	
aat atg aat tat att aat gta aat cta gaa ttt tta gcg aaa caa caa			384
Asn Met Asn Tyr Ile Asn Val Asn Leu Glu Phe Leu Ala Lys Gln Gln			
115	120	125	
att tta tta ttt aat acg ata ttg aca gtt ggt gat gag cca atg tca			432
Ile Leu Leu Phe Asn Thr Ile Leu Thr Val Gly Asp Glu Pro Met Ser			
130	135	140	
cac aaa cat att tgg gaa tca ttt tca aat tct att att aaa aaa tta			480
His Lys His Ile Trp Glu Ser Phe Ser Asn Ser Ile Ile Lys Lys Leu			
145	150	155	160
tca tta att aat aat aat ata gta ttt ata tta ttt ggt gca aaa gct			528
Ser Leu Ile Asn Asn Asn Ile Val Phe Ile Leu Phe Gly Ala Lys Ala			
165	170	175	
cat aat aaa att tat ttt atc gaa aat aaa aaa aat cat tgt att atc			576
His Asn Lys Ile Tyr Phe Ile Glu Asn Lys Lys Asn His Cys Ile Ile			
180	185	190	
aaa aca agt cat cct tct aat tta tct tgt tat aaa gat gga tat gat			624
Lys Thr Ser His Pro Ser Asn Leu Ser Cys Tyr Lys Asp Gly Tyr Asp			
195	200	205	
aaa tat gtt cct ttt aat aat tca gat tgt ttt aat att tgt aac gaa			672
Lys Tyr Val Pro Phe Asn Asn Ser Asp Cys Phe Asn Ile Cys Asn Glu			
210	215	220	
tat ctt ata aaa aat aat ata aaa ccg ata gat tgg tta tct gaa tta			720
Tyr Leu Ile Lys Asn Asn Ile Lys Pro Ile Asp Trp Leu Ser Glu Leu			
225	230	235	240
ata aaa aat aat taa			735
Ile Lys Asn Asn			

<210> 64

<211> 714

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (714)

<223>

<400> 64

atg gaa aat tat gat ttt aaa att gat aaa tat act cat ata gga aat	48
Met Glu Asn Tyr Asp Phe Lys Ile Asp Lys Tyr Thr His Ile Gly Asn	
1 5 10 15	
cgt agt tat aac gat gat tat ata ttt ata aaa aaa aat ata aat tat	96
Arg Ser Tyr Asn Asp Asp Tyr Ile Phe Ile Lys Lys Asn Ile Asn Tyr	
20 25 30	
atc atg ttt gta ata att gac gga cac gga ggt tca gaa tgt tct aaa	144
Ile Met Phe Val Ile Ile Asp Gly His Gly Gly Ser Glu Cys Ser Lys	
35 40 45	
ata ttt ata aaa tta ttt aat aaa aat ttt aat cca aaa cca tat gta	192
Ile Phe Ile Lys Leu Phe Asn Lys Asn Phe Asn Pro Lys Pro Tyr Val	
50 55 60	
gat att gga tta tat ata aaa aat tta ttt ata aaa att aat aaa aca	240
Asp Ile Gly Leu Tyr Ile Lys Asn Leu Phe Ile Lys Ile Asn Lys Thr	
65 70 75 80	
att tta aat aat aaa att aca tct gga gca tgt gta tct ggt att tat	288
Ile Leu Asn Asn Lys Ile Thr Ser Gly Ala Cys Val Ser Gly Ile Tyr	
85 90 95	
att gat aat aat aaa aca ata ata ttt caa tta gga gat aca aaa ata	336
Ile Asp Asn Asn Lys Thr Ile Ile Phe Gln Leu Gly Asp Thr Lys Ile	
100 105 110	
tat tta tat aat aac aat aaa tta aca tat gaa aca ata caa cat gat	384
Tyr Leu Tyr Asn Asn Asn Lys Leu Thr Tyr Glu Thr Ile Gln His Asp	
115 120 125	
ata tca aat aaa tac gaa aga aat aaa ttt ttt aaa gat ttt att tat	432
Ile Ser Asn Lys Tyr Glu Arg Asn Lys Phe Phe Lys Asp Phe Ile Tyr	
130 135 140	
tca gat att cca aga tta ttt gga aag tta aca gtt aca agg gca ata	480
Ser Asp Ile Pro Arg Leu Phe Gly Lys Leu Thr Val Thr Arg Ala Ile	
145 150 155 160	
gga aat ttt gat tta aat ata aaa tat ata cct aaa ata gat tat att	528
Gly Asn Phe Asp Leu Asn Ile Lys Tyr Ile Pro Lys Ile Asp Tyr Ile	
165 170 175	
tct aat aat agt tat aat aaa att att tta tgc aca gat gga gtg tat	576
Ser Asn Asn Ser Tyr Asn Lys Ile Ile Leu Cys Thr Asp Gly Val Tyr	
180 185 190	
aaa aaa ata aat ata aat atc gat gat act gct aaa gaa aat att aat	624
Lys Lys Ile Asn Ile Asn Ile Asp Asp Thr Ala Lys Glu Asn Ile Asn	

195	200	205	
aaa tgt tta aaa aat cct cct aat gat aat atg act atg atg att ata			672
Lys Cys Leu Lys Asn Pro Pro Asn Asp Asn Met Thr Met Met Ile Ile			
210	215	220	
aat tta tca aat ata tta cat tta ata aat aaa aac ata taa			714
Asn Leu Ser Asn Ile Leu His Leu Ile Asn Lys Asn Ile			
225	230	235	
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<222> (1)..(474)			
<223>			
<400> 65			
atg tta cct tat aaa tgg aat aat tat ttt gca cac gga act ata ata			48
Met Leu Pro Tyr Lys Trp Asn Asn Tyr Phe Ala His Gly Thr Ile Ile			
1	5	10	15
aag tgt ata aat aca ata tgt ttc aaa ctt ccg tgc aat ggt act gaa			96
Lys Cys Ile Asn Thr Ile Cys Phe Lys Leu Pro Cys Asn Gly Thr Glu			
20	25	30	
tgg gat ata tgt aaa tta ata aat act ttt cct aat tta aaa att gta			144
Trp Asp Ile Cys Lys Leu Ile Asn Thr Phe Pro Asn Leu Lys Ile Val			
35	40	45	
ata gat ttt aga tat tca gaa aca tgt tat aat cca tct gat ctt aat			192
Ile Asp Phe Arg Tyr Ser Glu Thr Cys Tyr Asn Pro Ser Asp Leu Asn			
50	55	60	
aaa tta ggt ata gaa tat ata aaa ata cca ata aaa gca caa tct tta			240
Lys Leu Gly Ile Glu Tyr Ile Lys Ile Pro Ile Lys Ala Gln Ser Leu			
65	70	75	80
cca aca gat gat aaa ata aat aaa ttt ttt aat att att gat aaa tat			288
Pro Thr Asp Asp Lys Ile Asn Lys Phe Phe Asn Ile Ile Asp Lys Tyr			
85	90	95	
att gaa tta aaa tat tta ata gga ata cat tgt act cat ggc att aat			336

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Ile Glu Leu Lys Tyr Leu Ile Gly Ile His Cys Thr His Gly Ile Asn
      100                      105                      110

aga act gga tat atg gtt tgt aaa tac tta ata tat aaa ttt aaa att      384
Arg Thr Gly Tyr Met Val Cys Lys Tyr Leu Ile Tyr Lys Phe Lys Ile
      115                      120                      125

cca cct tat gtt gct ata aat att ttc gaa aaa aat aga gga tat tat      432
Pro Pro Tyr Val Ala Ile Asn Ile Phe Glu Lys Asn Arg Gly Tyr Tyr
      130                      135                      140

ata gaa aga gaa ata tat ata aat aat tta tta tat ttt taa      474
Ile Glu Arg Glu Ile Tyr Ile Asn Asn Leu Leu Tyr Phe
145                      150                      155

<210> 66

<211> 870

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(870)

<223>

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atg gaa aat tat cat att att ata tta aca att aaa aga aat tct gac      48
Met Glu Asn Tyr His Ile Ile Ile Leu Thr Ile Lys Arg Asn Ser Asp
1                      5                      10                      15

aga tta caa aaa cta gaa aat ata tta tct tgt caa aat tta tta tat      96
Arg Leu Gln Lys Leu Glu Asn Ile Leu Ser Cys Gln Asn Leu Leu Tyr
      20                      25                      30

aat aaa gat tat agt gta ttt tat gga ata gat tat aaa aat ata aat      144
Asn Lys Asp Tyr Ser Val Phe Tyr Gly Ile Asp Tyr Lys Asn Ile Asn
      35                      40                      45

aaa aat aat tta aaa aat ata tgt aaa aaa gga ttt aaa aac aca tgt      192
Lys Asn Asn Leu Lys Asn Ile Cys Lys Lys Gly Phe Lys Asn Thr Cys
      50                      55                      60

cct tat tca act tta gca tgt gcg tca tca cat att cta tta tgg aaa      240
Pro Tyr Ser Thr Leu Ala Cys Ala Ser Ser His Ile Leu Leu Trp Lys
65                      70                      75                      80

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tat ata tca aaa tta aaa gat aaa tat aaa tat att ata ata tta gaa	288
Tyr Ile Ser Lys Leu Lys Asp Lys Tyr Lys Tyr Ile Ile Ile Leu Glu	
85 90 95	
gat gat aca tat ata aat gta tca gag tat aat aaa cat aca aat aca	336
Asp Asp Thr Tyr Ile Asn Val Ser Glu Tyr Asn Lys His Thr Asn Thr	
100 105 110	
gtt gaa gaa tta tta aaa aat aat agt ata gta ttt tta tat tct gat	384
Val Glu Glu Leu Leu Lys Asn Asn Ser Ile Val Phe Leu Tyr Ser Asp	
115 120 125	
tgt tat ata atg gga act acc atc aaa tca acc aac aat gat aca aaa	432
Cys Tyr Ile Met Gly Thr Thr Ile Lys Ser Thr Asn Asn Asp Thr Lys	
130 135 140	
ata aca tat aat cca aag ttt cac gtt tcg atg ggt tgt tat tgt ata	480
Ile Thr Tyr Asn Pro Lys Phe His Val Ser Met Gly Cys Tyr Cys Ile	
145 150 155 160	
aca cca atc act gct act aaa tta tat tat ttc tat ata aaa tct aga	528
Thr Pro Ile Thr Ala Thr Lys Leu Tyr Tyr Phe Tyr Ile Lys Ser Arg	
165 170 175	
gta tgg ttc cac ata gat ttt caa tta aat ttt gat ata cat aat ata	576
Val Trp Phe His Ile Asp Phe Gln Leu Asn Phe Asp Ile His Asn Ile	
180 185 190	
tca tta aat aga tat att tat ata gct gct aat gta tgt aat caa tat	624
Ser Leu Asn Arg Tyr Ile Tyr Ile Ala Ala Asn Val Cys Asn Gln Tyr	
195 200 205	
gaa gga aat aaa tca tct atg ggt tta aaa cat aat aat ata atg tta	672
Glu Gly Asn Lys Ser Ser Met Gly Leu Lys His Asn Asn Ile Met Leu	
210 215 220	
ata cct ata gaa aat aca aaa tta atg aga ata ata tcg act cct att	720
Ile Pro Ile Glu Asn Thr Lys Leu Met Arg Ile Ile Ser Thr Pro Ile	
225 230 235 240	
ata aga gtt aat gaa gct gaa ata gat ttt tat ata ata ata atg tta	768
Ile Arg Val Asn Glu Ala Glu Ile Asp Phe Tyr Ile Ile Ile Met Leu	
245 250 255	
atc tca ctt atc gct agt tta tat ttc ttt ggt ttt aat att tct gcc	816
Ile Ser Leu Ile Ala Ser Leu Tyr Phe Phe Gly Phe Asn Ile Ser Ala	
260 265 270	
tta ata ttt tta tta ttt ata gta gta gat gtt gcg gag aat gca aaa	864
Leu Ile Phe Leu Leu Phe Ile Val Val Asp Val Ala Glu Asn Ala Lys	
275 280 285	
aaa taa	870
Lys	

<210> 67

<211> 1830

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(1830)

<223>

<400> 67

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Met Asn Ile Lys Leu Leu Lys Asn Gly Met Arg Ile Ile Asn Asn Asn	
1 5 10 15	

ttt gat aat aat aat tta ata aat ata tct ata aat aat ttt ggt caa	96
Phe Asp Asn Asn Asn Leu Ile Asn Ile Ser Ile Asn Asn Phe Gly Gln	
20 25 30	

aat tta tca ata tat tat aag aat tat aag tta ata cat ctc ata gaa	144
Asn Leu Ser Ile Tyr Tyr Lys Asn Tyr Lys Leu Ile His Leu Ile Glu	
35 40 45	

cat ata tta gta tca atg cta ata gta tat aca ggt gaa tta tca ttt	192
His Ile Leu Val Ser Met Leu Ile Val Tyr Thr Gly Glu Leu Ser Phe	
50 55 60	

tgg aac gga tat aca aat tca aat aat att aat ata tat tat aat aat	240
Trp Asn Gly Tyr Thr Asn Ser Asn Asn Ile Asn Ile Tyr Tyr Asn Asn	
65 70 75 80	

ata atg aat ata tca cat aat aaa ata att gat gcg ata ctt cgt tta	288
Ile Met Asn Ile Ser His Asn Lys Ile Ile Asp Ala Ile Leu Arg Leu	
85 90 95	

ttt aat aaa aat ggt att ttt gtt gat gaa aat ata ata aat tat aaa	336
Phe Asn Lys Asn Gly Ile Phe Val Asp Glu Asn Ile Ile Asn Tyr Lys	
100 105 110	

ttt tta gaa aat gaa aat aaa ata tta aat aat gaa aaa aat ttt aga	384
Phe Leu Glu Asn Glu Asn Lys Ile Leu Asn Asn Glu Lys Asn Phe Arg	
115 120 125	

tta tta aca gat aaa tat gaa ata aat cct ata tta tat ctt tta aca	432
Leu Leu Thr Asp Lys Tyr Glu Ile Asn Pro Ile Leu Tyr Leu Leu Thr	
130 135 140	

aat gat gtt tat tta gaa gaa aat aat caa aaa ata ata tct gat gtt	480
Asn Asp Val Tyr Leu Glu Glu Asn Asn Gln Lys Ile Ile Ser Asp Val	
145 150 155 160	
aaa ttt att aat gat gta ttg tcg gat att aat gtg tca gat att ata	528
Lys Phe Ile Asn Asp Val Leu Ser Asp Ile Asn Val Ser Asp Ile Ile	
165 170 175	
ttt tat act tca aat aca gat ttt ttt aat ata tta tat ccg cga tta	576
Phe Tyr Thr Ser Asn Thr Asp Phe Phe Asn Ile Leu Tyr Pro Arg Leu	
180 185 190	
gat aaa ata att ttt aat aaa act aaa aat aaa aaa aat aaa ttt cta	624
Asp Lys Ile Ile Phe Asn Lys Thr Lys Asn Lys Lys Asn Lys Phe Leu	
195 200 205	
aca tta ccc att tat aaa tct agt ttt aaa aat agt ata tat tta ttt	672
Thr Leu Pro Ile Tyr Lys Ser Ser Phe Lys Asn Ser Ile Tyr Leu Phe	
210 215 220	
tct ttc gat caa aat aat aga tat tat agt ata act att aaa ttt aat	720
Ser Phe Asp Gln Asn Asn Arg Tyr Tyr Ser Ile Thr Ile Lys Phe Asn	
225 230 235 240	
tta tta aaa tat gtt ata att gga tat atg att gat aaa tat tat tat	768
Leu Leu Lys Tyr Val Ile Ile Gly Tyr Met Ile Asp Lys Tyr Tyr Tyr	
245 250 255	
aat aaa tta gta tta atc aat ata tta tcc gat aaa tta tta tct tta	816
Asn Lys Leu Val Leu Ile Asn Ile Leu Ser Asp Lys Leu Leu Ser Leu	
260 265 270	
act ata tat ttt tta aca agt gaa tat atg tat aaa tca tta aat tat	864
Thr Ile Tyr Phe Leu Thr Ser Glu Tyr Met Tyr Lys Ser Leu Asn Tyr	
275 280 285	
ttt gaa act ata gat tat tct aaa ata aaa aaa tta gaa ttt gat gat	912
Phe Glu Thr Ile Asp Tyr Ser Lys Ile Lys Lys Leu Glu Phe Asp Asp	
290 295 300	
tat gta ata tta aat gaa tat ttt gat att ata aat att tat aat aat	960
Tyr Val Ile Leu Asn Glu Tyr Phe Asp Ile Ile Asn Ile Tyr Asn Asn	
305 310 315 320	
ata aaa agt aat aat ata aat aaa tat tat tct tat tat aat aaa tat	1008
Ile Lys Ser Asn Asn Ile Asn Lys Tyr Tyr Ser Tyr Tyr Asn Lys Tyr	
325 330 335	
att gat tat att ata aat tca tct aca gat ata aat aaa ttt ttt tta	1056
Ile Asp Tyr Ile Ile Asn Ser Ser Thr Asp Ile Asn Lys Phe Phe Leu	
340 345 350	
caa ata cct aat caa cta tat tta aat aat gaa ttt gat att aat aat	1104
Gln Ile Pro Asn Gln Leu Tyr Leu Asn Asn Glu Phe Asp Ile Asn Asn	
355 360 365	
att cct gtt ttt aaa gca gaa aca tta ttt aat agt aaa ata aac aca	1152

Ile	Pro	Val	Phe	Lys	Ala	Glu	Thr	Leu	Phe	Asn	Ser	Lys	Ile	Asn	Thr		
370						375				380							
aat	aat	aaa	aat	aaa	ata	aca	aat	att	aat	aat	ata	gaa	ata	tta	aat	1200	
Asn	Asn	Lys	Asn	Lys	Ile	Thr	Asn	Ile	Asn	Asn	Ile	Glu	Ile	Leu	Asn		
385					390				395						400		
ttt	aat	ggt	aat	aat	atg	ata	ttt	ttt	atg	aat	ggt	att	gaa	gat	aaa	1248	
Phe	Asn	Val	Asn	Asn	Met	Ile	Phe	Phe	Met	Asn	Val	Ile	Glu	Asp	Lys		
				405					410					415			
ttt	gaa	ata	aaa	aat	aat	gaa	ata	att	ata	aaa	aat	aca	aaa	aat	ata	1296	
Phe	Glu	Ile	Lys	Asn	Asn	Glu	Ile	Ile	Ile	Lys	Asn	Thr	Lys	Asn	Ile		
			420					425						430			
tat	aaa	tca	gat	aat	aat	ata	tgt	gtg	ctt	aat	aat	aat	tat	aat	tat	1344	
Tyr	Lys	Ser	Asp	Asn	Asn	Ile	Cys	Val	Leu	Asn	Asn	Asn	Tyr	Asn	Tyr		
		435					440					445					
cct	aaa	ata	tat	ttt	tat	tat	aaa	tat	ttt	ata	att	tac	ttt	ttt	tct	1392	
Pro	Lys	Ile	Tyr	Phe	Tyr	Tyr	Lys	Tyr	Phe	Ile	Ile	Tyr	Phe	Phe	Ser		
	450					455					460						
aat	ata	ttt	tta	aat	att	gac	gat	gct	ata	gaa	tat	gta	aaa	tat	aaa	1440	
Asn	Ile	Phe	Leu	Asn	Ile	Asp	Asp	Ala	Ile	Glu	Tyr	Val	Lys	Tyr	Lys		
465					470				475						480		
cct	tat	ttt	aat	tta	tta	aat	aat	att	aat	gta	gaa	aat	aat	ttt	aac	1488	
Pro	Tyr	Phe	Asn	Leu	Leu	Asn	Asn	Ile	Asn	Val	Glu	Asn	Asn	Phe	Asn		
				485					490					495			
aca	aat	ata	tta	ata	aat	aat	aaa	aaa	ata	aac	ata	aat	aca	aat	cat	1536	
Thr	Asn	Ile	Leu	Ile	Asn	Asn	Lys	Lys	Ile	Asn	Ile	Asn	Thr	Asn	His		
			500					505					510				
gat	ttc	ata	aca	gca	tta	tac	ata	tat	aat	tgt	aat	aat	aaa	aat	tgt	1584	
Asp	Phe	Ile	Thr	Ala	Leu	Tyr	Ile	Tyr	Asn	Cys	Asn	Asn	Lys	Asn	Cys		
		515					520					525					
tat	ata	cat	atg	gct	act	att	tca	gat	ata	tta	aga	gat	ctc	gga	tta	1632	
Tyr	Ile	His	Met	Ala	Thr	Ile	Ser	Asp	Ile	Leu	Arg	Asp	Leu	Gly	Leu		
		530				535					540						
ata	tac	acc	cct	att	att	aat	ttt	gaa	aat	aat	cta	ggt	tat	tta	ttt	1680	
Ile	Tyr	Thr	Pro	Ile	Ile	Asn	Phe	Glu	Asn	Asn	Leu	Val	Tyr	Leu	Phe		
545					550				555						560		
ata	ata	aca	aat	aaa	cca	cat	gaa	act	gaa	ata	cat	tta	aga	aaa	ata	1728	
Ile	Ile	Thr	Asn	Lys	Pro	His	Glu	Thr	Glu	Ile	His	Leu	Arg	Lys	Ile		
				565					570					575			
tta	aat	gat	aaa	ttt	aat	gta	aat	aat	ggt	att	aca	ata	ata	tca	aca	1776	
Leu	Asn	Asp	Lys	Phe	Asn	Val	Asn	Asn	Val	Ile	Thr	Ile	Ile	Ser	Thr		
			580					585					590				
aaa	gga	aac	tat	aac	act	aaa	gaa	tta	tta	aat	aaa	tac	ata	acc	ttc	1824	
Lys	Gly	Asn	Tyr	Asn	Thr	Lys	Glu	Leu	Leu	Asn	Lys	Tyr	Ile	Thr	Phe		

595 600 605 1830

aat taa
Asn

<210> 68

<211> 741

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(741)

<223>

<400> 68

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1 5 10 15	
aga gtt gaa aat tca tta att caa aca gca aat gcc tct gca caa gca	96
Arg Val Glu Asn Ser Leu Ile Gln Thr Ala Asn Ala Ser Ala Gln Ala	
20 25 30	
ata tgt cga gta aca att gga agt att agt ttt aga tcc aca cag gga	144
Ile Cys Arg Val Thr Ile Gly Ser Ile Ser Phe Arg Ser Thr Gln Gly	
35 40 45	
tgt act ata gag gta aga aat tta tgt agt gcg caa gct gta gca caa	192
Cys Thr Ile Glu Val Arg Asn Leu Cys Ser Ala Gln Ala Val Ala Gln	
50 55 60	
gtt gac gct gta gta aat gca act att gat ttt tat aat aat tta act	240
Val Asp Ala Val Val Asn Ala Thr Ile Asp Phe Tyr Asn Asn Leu Thr	
65 70 75 80	
ttt gaa caa aaa caa gaa gca cct acg tgg ttt aca gta gct tat gga	288
Phe Glu Gln Lys Gln Glu Ala Pro Thr Trp Phe Thr Val Ala Tyr Gly	
85 90 95	
ata aat act act gta act act atc gaa aat gat ttt aga aat tta gtt	336
Ile Asn Thr Thr Val Thr Thr Ile Glu Asn Asp Phe Arg Asn Leu Val	
100 105 110	
gaa caa aga tgt aaa tct caa gct gtt tta gat agt agc ata aca gtt	384

Glu	Gln	Arg	Cys	Lys	Ser	Gln	Ala	Val	Leu	Asp	Ser	Ser	Ile	Thr	Val		
	115						120					125					
gat	aat	att	tta	gtt	aat	gat	tgt	aga	gca	cca	gga	aat	gaa	ata	gtt	432	
Asp	Asn	Ile	Leu	Val	Asn	Asp	Cys	Arg	Ala	Pro	Gly	Asn	Glu	Ile	Val		
	130					135					140						
aga	ttt	aca	ttt	gtt	aat	tct	gga	acg	gct	gct	gga	caa	tgt	gca	ata	480	
Arg	Phe	Thr	Phe	Val	Asn	Ser	Gly	Thr	Ala	Ala	Gly	Gln	Cys	Ala	Ile		
	145				150				155					160			
tct	gct	cta	tta	gat	tta	caa	gta	gcg	ggt	tct	aat	caa	gta	agt	gct	528	
Ser	Ala	Leu	Leu	Asp	Leu	Gln	Val	Ala	Gly	Ser	Asn	Gln	Val	Ser	Ala		
				165				170					175				
agt	caa	agt	caa	ggt	tta	aat	ata	gga	aat	ata	ata	tta	tat	gta	gca	576	
Ser	Gln	Ser	Gln	Gly	Leu	Asn	Ile	Gly	Asn	Ile	Ile	Leu	Tyr	Val	Ala		
			180					185					190				
ata	gca	att	att	gtt	att	gca	ata	tca	tat	gtt	tta	ata	aaa	ttt	ttt	624	
Ile	Ala	Ile	Ile	Val	Ile	Ala	Ile	Ser	Tyr	Val	Leu	Ile	Lys	Phe	Phe		
		195				200						205					
ggt	aat	aaa	cca	aca	ata	aaa	caa	caa	att	agt	tta	gaa	tta	gct	aaa	672	
Gly	Asn	Lys	Pro	Thr	Ile	Lys	Gln	Gln	Ile	Ser	Leu	Glu	Leu	Ala	Lys		
	210					215					220						
aat	gga	gca	gtg	tct	agt	caa	tta	ata	caa	tta	tcg	aga	tat	gta	tct	720	
Asn	Gly	Ala	Val	Ser	Ser	Gln	Leu	Ile	Gln	Leu	Ser	Arg	Tyr	Val	Ser		
	225				230				235					240			
aaa	ata	gat	gat	aga	gat	tga										741	
Lys	Ile	Asp	Asp	Arg	Asp												
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<210> 69

<211> 831

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

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<222> (1) .. (831)

<223>

<400> 69

atg act tta gtt aaa cat aat acg atg cat aat ttt tta cat tca aaa	48
Met Thr Leu Val Lys His Asn Thr Met His Asn Phe Leu His Ser Lys	
1 5 10 15	
tca aat ata tct gaa tta gat tat agt att gaa tct tcg tca gaa aga	96
Ser Asn Ile Ser Glu Leu Asp Tyr Ser Ile Glu Ser Ser Ser Glu Arg	
20 25 30	
aga gat ata att ata aaa aaa tac gat aca tta aat ata aaa aat tat	144
Arg Asp Ile Ile Ile Lys Lys Tyr Asp Thr Leu Asn Ile Lys Asn Tyr	
35 40 45	
aat aga aaa aca agt ttt aat gct ata tta ata aca agc gat aat aaa	192
Asn Arg Lys Thr Ser Phe Asn Ala Ile Leu Ile Thr Ser Asp Asn Lys	
50 55 60	
att att att gca gaa aga aaa ttt agc tat tat atg gac aca ata tat	240
Ile Ile Ile Ala Glu Arg Lys Phe Ser Tyr Tyr Met Asp Thr Ile Tyr	
65 70 75 80	
ata ata tct aca tat aaa aat ata tct gat gat ata tta gaa aca ttt	288
Ile Ile Ser Thr Tyr Lys Asn Ile Ser Asp Asp Ile Leu Glu Thr Phe	
85 90 95	
att aaa tta ttt gat aaa tta act aat aaa gaa aaa tat aat ata tat	336
Ile Lys Leu Phe Asp Lys Leu Thr Asn Lys Glu Lys Tyr Asn Ile Tyr	
100 105 110	
aat aaa aaa aga ata aat aaa aaa tat att tca att ata aat ttt att	384
Asn Lys Lys Arg Ile Asn Lys Lys Tyr Ile Ser Ile Ile Asn Phe Ile	
115 120 125	
gaa gta tat ttc gat ggt aat ata aat cat aaa tat tta caa tat tta	432
Glu Val Tyr Phe Asp Gly Asn Ile Asn His Lys Tyr Leu Gln Tyr Leu	
130 135 140	
tat aat gta aaa tct aga att ata tta aat aat aat ttt aga tac aga	480
Tyr Asn Val Lys Ser Arg Ile Ile Leu Asn Asn Asn Phe Arg Tyr Arg	
145 150 155 160	
gat aaa ttt tta att tta cct ggt ggt aaa aaa aat aat aat gaa aat	528
Asp Lys Phe Leu Ile Leu Pro Gly Gly Lys Lys Asn Asn Asn Glu Asn	
165 170 175	
att aat gaa gtt ata agt cga gaa tca cac gaa gaa ata aat att cct	576
Ile Asn Glu Val Ile Ser Arg Glu Ser His Glu Glu Ile Asn Ile Pro	
180 185 190	
ata aat aat caa gat aat aat aat att gat ata atg caa gac tat tat	624
Ile Asn Asn Gln Asp Asn Asn Asn Ile Asp Ile Met Gln Asp Tyr Tyr	
195 200 205	
tca gaa act ata ata ttt gat aaa ata ctt tca aaa aaa ttt att gat	672
Ser Glu Thr Ile Ile Phe Asp Lys Ile Leu Ser Lys Lys Phe Ile Asp	
210 215 220	
gtt act att ata gca aaa atc aaa tat agt tct att caa ata tta aat	720

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Val Thr Ile Ile Ala Lys Ile Lys Tyr Ser Ser Ile Gln Ile Leu Asn
225                230                235                240

ttc ttt aaa ccc aat cat gaa att agt aat att aaa ttt ata cct att      768
Phe Phe Lys Pro Asn His Glu Ile Ser Asn Ile Lys Phe Ile Pro Ile
                245                250                255

aat aaa ata aat tcg atg att gat ata ttt tat tat gta caa aaa caa      816
Asn Lys Ile Asn Ser Met Ile Asp Ile Phe Tyr Tyr Val Gln Lys Gln
                260                265                270

tta atc tat tgt taa
Leu Ile Tyr Cys
                275

<210> 70

<211> 1002

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(1002)

<223>

<400> 70
atg aaa aaa aaa tat aat aat aca tac aag att ata gaa gaa aaa att      48
Met Lys Lys Lys Tyr Asn Asn Thr Tyr Lys Ile Ile Glu Glu Lys Ile
1                5                10                15

tat aat acg gat gga caa gaa ata gta gac gat aat tta tta aat att      96
Tyr Asn Thr Asp Gly Gln Glu Ile Val Asp Asp Asn Leu Leu Asn Ile
                20                25                30

ata aag aaa tat aaa cct ccc aaa cat ctt aat aat ata gaa tta ata      144
Ile Lys Lys Tyr Lys Pro Pro Lys His Leu Asn Asn Ile Glu Leu Ile
                35                40                45

gct aaa aat atc gag gaa gct gac aac ggt ata ata tat att ggt att      192
Ala Lys Asn Ile Glu Glu Ala Asp Asn Gly Ile Ile Tyr Ile Gly Ile
                50                55                60

gat agt aaa aat aaa aaa caa tat att tac gga ata aat tac gta aaa      240
Asp Ser Lys Asn Lys Lys Gln Tyr Ile Tyr Gly Ile Asn Tyr Val Lys
65                70                75                80

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aaa aga aga aat gac aga ata aaa ata ttt tta aaa gta gaa aat aaa	288
Lys Arg Arg Asn Asp Arg Ile Lys Ile Phe Leu Lys Val Glu Asn Lys	
85 90 95	
ata cct aaa ata gaa aaa tat att aat aaa gaa ttg aat ata ttc aaa	336
Ile Pro Lys Ile Glu Lys Tyr Ile Asn Lys Glu Leu Asn Ile Phe Lys	
100 105 110	
aaa aat ggt agt aat tca tca cac ata tac ata act gat aaa atg att	384
Lys Asn Gly Ser Asn Ser Ser His Ile Tyr Ile Thr Asp Lys Met Ile	
115 120 125	
ttt gct att ata tta tta gta gaa atg tgt ttt ttt ata aga act gga	432
Phe Ala Ile Ile Leu Leu Val Glu Met Cys Phe Phe Ile Arg Thr Gly	
130 135 140	
aaa aaa aaa tat tta gaa gat aat gaa act atc gga tta ttg aca tta	480
Lys Lys Lys Tyr Leu Glu Asp Asn Glu Thr Ile Gly Leu Leu Thr Leu	
145 150 155 160	
caa aaa aat aat ttt aca ata gaa aat gat gtt ata tat ata aat ttt	528
Gln Lys Asn Asn Phe Thr Ile Glu Asn Asp Val Ile Tyr Ile Asn Phe	
165 170 175	
aaa gga aaa tta tct caa aat caa aat ttt agc ata tta aaa gat gag	576
Lys Gly Lys Leu Ser Gln Asn Gln Asn Phe Ser Ile Leu Lys Asp Glu	
180 185 190	
cat tta tta ata tac aat atg att aaa ata tta tat aat aag act aat	624
His Leu Leu Ile Tyr Asn Met Ile Lys Ile Leu Tyr Asn Lys Thr Asn	
195 200 205	
gat ttt ata ttt aaa aat agt gat gat ata ata ttt aat gaa tct aaa	672
Asp Phe Ile Phe Lys Asn Ser Asp Asp Ile Ile Phe Asn Glu Ser Lys	
210 215 220	
tta tat tct atg att aaa caa ttt aat ata aag tta aaa gat ata aga	720
Leu Tyr Ser Met Ile Lys Gln Phe Asn Ile Lys Leu Lys Asp Ile Arg	
225 230 235 240	
aca ttt gga gtt aat aga gtt tta ata caa gaa ttg tgg aaa aat gtt	768
Thr Phe Gly Val Asn Arg Val Leu Ile Gln Glu Leu Trp Lys Asn Val	
245 250 255	
aga gat tta gat att atg gat att agg cat aaa gat ata aaa aaa ata	816
Arg Asp Leu Asp Ile Met Asp Ile Arg His Lys Asp Ile Lys Lys Ile	
260 265 270	
ata tca gaa gta gtt aaa aga aca gct aat ata att ggt cat aca cca	864
Ile Ser Glu Val Val Lys Arg Thr Ala Asn Ile Ile Gly His Thr Pro	
275 280 285	
act ata tcc aaa aat agt tat ata gta gat gaa ata aga tct ata ata	912
Thr Ile Ser Lys Asn Ser Tyr Ile Val Asp Glu Ile Arg Ser Ile Ile	
290 295 300	
gat aaa gat act ata aac aaa gct aaa gaa atg aca ttt gat gaa tat	960

Asp Lys Asp Thr Ile Asn Lys Ala Lys Glu Met Thr Phe Asp Glu Tyr
 305 310 315 320

tat aaa tat att gta gat aaa tta aaa gaa tta acc aat taa 1002
 Tyr Lys Tyr Ile Val Asp Lys Leu Lys Glu Leu Thr Asn
 325 330

<210> 71

<211> 1161

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(1161)

<223>

<400> 71

atg ggt ggt aga gta agt ata tcg ttt ata aga cca gag aat aat aat 48
 Met Gly Gly Arg Val Ser Ile Ser Phe Ile Arg Pro Glu Asn Asn Asn
 1 5 10 15

aat gga aat aaa aat tta tta ata ggt tta agt gat aat aac ata gtt 96
 Asn Gly Asn Lys Asn Leu Leu Ile Gly Leu Ser Asp Asn Asn Ile Val
 20 25 30

aga gtt ccg atg ttt gaa caa att aat aga ata cca aga tcg gct tat 144
 Arg Val Pro Met Phe Glu Gln Ile Asn Arg Ile Pro Arg Ser Ala Tyr
 35 40 45

gaa aat ctc gac gaa tat gaa ata aat tat tgt att gga act cca ttt 192
 Glu Asn Leu Asp Glu Tyr Glu Ile Asn Tyr Cys Ile Gly Thr Pro Phe
 50 55 60

aat tct ttg gca gaa tgt gca tta tta ttt aat aat aat att ttg tct 240
 Asn Ser Leu Ala Glu Cys Ala Leu Leu Phe Asn Asn Asn Ile Leu Ser
 65 70 75 80

aat tat aca agc gaa tta gat aat tat gta ata act aac gaa gga tcg 288
 Asn Tyr Thr Ser Glu Leu Asp Asn Tyr Val Ile Thr Asn Glu Gly Ser
 85 90 95

ccg tgt act agt tta aca ttt agg ccg gga agt ata tta tat ggt aat 336
 Pro Cys Thr Ser Leu Thr Phe Arg Pro Gly Ser Ile Leu Tyr Gly Asn
 100 105 110

tca gaa tgg tta gaa ggt aga aca ttt gtt gga aat aaa tgt aaa ata	384
Ser Glu Trp Leu Glu Gly Arg Thr Phe Val Gly Asn Lys Cys Lys Ile	
115 120 125	
aga tat aga gga tat cca ata tat gaa aat gat ttg cgg gaa tgt tgt	432
Arg Tyr Arg Gly Tyr Pro Ile Tyr Glu Asn Asp Leu Arg Glu Cys Cys	
130 135 140	
act ggt aaa aga aca tct ggt tgt cac gaa aca tta ata aat aac ttt	480
Thr Gly Lys Arg Thr Ser Gly Cys His Glu Thr Leu Ile Asn Asn Phe	
145 150 155 160	
aca aca cca cat tgt aat gta aca atg caa aat ttt tgc aga caa aat	528
Thr Thr Pro His Cys Asn Val Thr Met Gln Asn Phe Cys Arg Gln Asn	
165 170 175	
ccg gaa gat tta tat tgc tat aga tgg atg tat agc caa tct aaa aca	576
Pro Glu Asp Leu Tyr Cys Tyr Arg Trp Met Tyr Ser Gln Ser Lys Thr	
180 185 190	
ttt gat att gct tta aaa tta tat tca gaa tta tgt agt ata gat cat	624
Phe Asp Ile Ala Leu Lys Leu Tyr Ser Glu Leu Cys Ser Ile Asp His	
195 200 205	
act aaa tta tat tgt gat tat atg tgt gtg tat gcg aga gaa aat gga	672
Thr Lys Leu Tyr Cys Asp Tyr Met Cys Val Tyr Ala Arg Glu Asn Gly	
210 215 220	
tat cca gga tat tgt gat gat tcg ttg tca aac tgg tgt aaa aat aat	720
Tyr Pro Gly Tyr Cys Asp Asp Ser Leu Ser Asn Trp Cys Lys Asn Asn	
225 230 235 240	
agt aat aat tcg tta tgt ttt tgt tat aat cct cct act gaa ttt ata	768
Ser Asn Asn Ser Leu Cys Phe Cys Tyr Asn Pro Pro Thr Glu Phe Ile	
245 250 255	
cca gat gtt gaa gaa gtt ttg ggt cca aaa gaa tgt tgg tta gcg cca	816
Pro Asp Val Glu Glu Val Leu Gly Pro Lys Glu Cys Trp Leu Ala Pro	
260 265 270	
tgt act gtc tct tat agt ggt caa aaa tgg tta aca acc aat cag atg	864
Cys Thr Val Ser Tyr Ser Gly Gln Lys Trp Leu Thr Thr Asn Gln Met	
275 280 285	
aat ata aaa aaa aat tgt aat ata caa tct tgt att ata acc ata gga	912
Asn Ile Lys Lys Asn Cys Asn Ile Gln Ser Cys Ile Ile Thr Ile Gly	
290 295 300	
tca ttg tta act aga ggt aat aat aaa att gat tta ata aat aat tgt	960
Ser Leu Leu Thr Arg Gly Asn Asn Lys Ile Asp Leu Ile Asn Asn Cys	
305 310 315 320	
ata aac aat tta aac gca agc aca gta ata aat tca gaa aat tta tca	1008
Ile Asn Asn Leu Asn Ala Ser Thr Val Ile Asn Ser Glu Asn Leu Ser	
325 330 335	
aat gtc act gat ata aaa ata aat caa aca tgg gga gta ttt ttc gat	1056

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Asn Val Thr Asp Ile Lys Ile Asn Gln Thr Trp Gly Val Phe Phe Asp
      340                      345                      350

cct gtt ata ttt att tta ata ata ttt ata ttt ata ttg ata ata tta      1104
Pro Val Ile Phe Ile Leu Ile Ile Phe Ile Phe Ile Leu Ile Ile Leu
      355                      360                      365

tat ttt tat aat aaa aaa cca ata tat act att aat ata agt gaa act      1152
Tyr Phe Tyr Asn Lys Lys Pro Ile Tyr Thr Ile Asn Ile Ser Glu Thr
      370                      375                      380

aat tta taa
Asn Leu
385

<210> 72

<211> 423

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (423)

<223>

<400> 72
atg tta agt aat tat gaa aat gat aat aaa atg ata gaa tat tgt aat      48
Met Leu Ser Asn Tyr Glu Asn Asp Asn Lys Met Ile Glu Tyr Cys Asn
1                      5                      10                      15

aat aat aaa gat gat ata aaa tgt caa tgt tta ata gtg aat gat aat      96
Asn Asn Lys Asp Asp Ile Lys Cys Gln Cys Leu Ile Val Asn Asp Asn
      20                      25                      30

atc gat gta ttt tca aaa tca tca tat gcg cca tat ttt tgt tgg tat      144
Ile Asp Val Phe Ser Lys Ser Ser Tyr Ala Pro Tyr Phe Cys Trp Tyr
      35                      40                      45

tct gcg tgt aga aat aat gaa aac tat att act agt tta ata aaa agt      192
Ser Ala Cys Arg Asn Asn Glu Asn Tyr Ile Thr Ser Leu Ile Lys Ser
      50                      55                      60

gaa caa caa tat tgt aat att aca gtg tgt gaa att agt gtt aca gat      240
Glu Gln Gln Tyr Cys Asn Ile Thr Val Cys Glu Ile Ser Val Thr Asp
65                      70                      75                      80

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ata gta tta aat gac aat gga aat tta act gta aca aac gaa tgt gct 288
 Ile Val Leu Asn Asp Asn Gly Asn Leu Thr Val Thr Asn Glu Cys Ala
 85 90 95

agt aac ata aat cct ata tat tca tta tct caa att ata gtt aat tta 336
 Ser Asn Ile Asn Pro Ile Tyr Ser Leu Ser Gln Ile Ile Val Asn Leu
 100 105 110

acg tca ttt gac ata cca aat tta ttt gta agt ttt ttt tat ccg ata 384
 Thr Ser Phe Asp Ile Pro Asn Leu Phe Val Ser Phe Phe Tyr Pro Ile
 115 120 125

gtt att att ata tca att tta ata ttt ttt aaa aaa taa 423
 Val Ile Ile Ile Ser Ile Leu Ile Phe Phe Lys Lys
 130 135 140

<210> 73

<211> 747

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (747)

<223>

<400> 73
 atg aat gaa tcg caa tta caa acc aga aat agt agt att aat ata ggt 48
 Met Asn Glu Ser Gln Leu Gln Thr Arg Asn Ser Ser Ile Asn Ile Gly
 1 5 10 15

aga act ata ttt aat gac gta tat act aga ttt atc gat aaa tta aat 96
 Arg Thr Ile Phe Asn Asp Val Tyr Thr Arg Phe Ile Asp Lys Leu Asn
 20 25 30

aga ata tct agt aca aca aat att aat tgt aat ata aat ata aat gaa 144
 Arg Ile Ser Ser Thr Thr Asn Ile Asn Cys Asn Ile Asn Ile Asn Glu
 35 40 45

ata aga aca agt aat att aat aat tgt aat ata gtt tta agt aat aaa 192
 Ile Arg Thr Ser Asn Ile Asn Asn Cys Asn Ile Val Leu Ser Asn Lys
 50 55 60

tgt gtt agt aat gaa ata act agt ttt aca tta tta tta caa agt tta 240
 Cys Val Ser Asn Glu Ile Thr Ser Phe Thr Leu Leu Leu Gln Ser Leu
 65 70 75 80

gga gaa act atg tta cta tta cca gaa gac aga cgc aca caa ata gaa 288
 Gly Glu Thr Met Leu Leu Leu Pro Glu Asp Arg Arg Thr Gln Ile Glu
 85 90 95

aat ata tta gga ata tcc aca gat gat ata ata aat gaa aat gat act 336
 Asn Ile Leu Gly Ile Ser Thr Asp Asp Ile Ile Asn Glu Asn Asp Thr
 100 105 110

gga ttc ata aat aat tgt aga gca agt gca gta gtg gac aat agt ata 384
 Gly Phe Ile Asn Asn Cys Arg Ala Ser Ala Val Val Asp Asn Ser Ile
 115 120 125

aat atc ggt act ata gaa ata aat gat tgt tat tct aat ttt cct act 432
 Asn Ile Gly Thr Ile Glu Ile Asn Asp Cys Tyr Ser Asn Phe Pro Thr
 130 135 140

gat ttc tta ttt tta aat gcg ggt tct gcg gat gct aat tgt gga ata 480
 Asp Phe Leu Phe Leu Asn Ala Gly Ser Ala Asp Ala Asn Cys Gly Ile
 145 150 155 160

aaa tat ata tca gat gca tta cta aaa tta gat aat aga aaa cca gaa 528
 Lys Tyr Ile Ser Asp Ala Leu Leu Lys Leu Asp Asn Arg Lys Pro Glu
 165 170 175

tta tca ttg caa tta ttg ttt aat ata aaa atg ata gat tat ata ata 576
 Leu Ser Leu Gln Leu Leu Phe Asn Ile Lys Met Ile Asp Tyr Ile Ile
 180 185 190

ata tta ata act att tta tct ata tat ata tta ttt att ttt atg tca 624
 Ile Leu Ile Thr Ile Leu Ser Ile Tyr Ile Leu Phe Ile Phe Met Ser
 195 200 205

ttt tta ata cca aga aat aaa aaa tct atc tat tat tct aga aat act 672
 Phe Leu Ile Pro Arg Asn Lys Lys Ser Ile Tyr Tyr Ser Arg Asn Thr
 210 215 220

att ctt aat aaa aat gat aaa atc tta gaa aat att tat ttg aga cat 720
 Ile Leu Asn Lys Asn Asp Lys Ile Leu Glu Asn Ile Tyr Leu Arg His
 225 230 235 240

tac gat ggg atc aat aat ttt ata tga 747
 Tyr Asp Gly Ile Asn Asn Phe Ile
 245

<210> 74

<211> 1011

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(1011)

<223>

<400> 74

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Met Gly Gly Ser Val Asp Ile Glu Ala Arg Tyr Thr Gly Ser Ser Asn	
1 5 10 15	

ttt caa gaa aca tat ttg tca ttt tca aat tta att aat act ata tat	96
Phe Gln Glu Thr Tyr Leu Ser Phe Ser Asn Leu Ile Asn Thr Ile Tyr	
20 25 30	

ata tta aca aga gat gaa aga ata cca ata ggt ata ttt tca aac aat	144
Ile Leu Thr Arg Asp Glu Arg Ile Pro Ile Gly Ile Phe Ser Asn Asn	
35 40 45	

cct gat gat tac aga aat tat cga gga tat act gct ata ttt aaa cca	192
Pro Asp Asp Tyr Arg Asn Tyr Arg Gly Tyr Thr Ala Ile Phe Lys Pro	
50 55 60	

ggc gga tat aaa gaa tta ttg aaa gta aat gac tta gga ccc gat gac	240
Gly Gly Tyr Lys Glu Leu Leu Lys Val Asn Asp Leu Gly Pro Asp Asp	
65 70 75 80	

ttg tgt tgt att tat gat tgg aga tat gct tgg gtt gat gaa aat aat	288
Leu Cys Cys Ile Tyr Asp Trp Arg Tyr Ala Trp Val Asp Glu Asn Asn	
85 90 95	

ata tta tca caa aac gca agt gta aat aaa aat tta ttt acg tgc gat	336
Ile Leu Ser Gln Asn Ala Ser Val Asn Lys Asn Leu Phe Thr Cys Asp	
100 105 110	

cct aga act ata caa gta gga act aat aat att tgt gat aat tcg atg	384
Pro Arg Thr Ile Gln Val Gly Thr Asn Asn Ile Cys Asp Asn Ser Met	
115 120 125	

tat aga gct tgt ata tta gat ttt aat aat cat aga tat tta gaa gcg	432
Tyr Arg Ala Cys Ile Leu Asp Phe Asn Asn His Arg Tyr Leu Glu Ala	
130 135 140	

aaa tgt ggt gtt tgg tta gat ggt tta ttt aaa aga ttt gca aca gct	480
Lys Cys Gly Val Trp Leu Asp Gly Leu Phe Lys Arg Phe Ala Thr Ala	
145 150 155 160	

tca aat att ata aat aat aca aat aat ata cta tta caa tcg tgt tct	528
Ser Asn Ile Ile Asn Asn Thr Asn Asn Ile Leu Leu Gln Ser Cys Ser	
165 170 175	

aat aat att aat aat gat ttg tgt ata aaa tgg tta ata gca ata aga	576
Asn Asn Ile Asn Asn Asp Leu Cys Ile Lys Trp Leu Ile Ala Ile Arg	

180	185	190	
aat agc gga aat cct aca ttt ttt tca tta gca gat aat gtt tta aac			624
Asn Ser Gly Asn Pro Thr Phe Phe Ser Leu Ala Asp Asn Val Leu Asn			
195	200	205	
gca caa aca gat aaa aca aat tta aaa tgt gct ttt tct cct tca tat			672
Ala Gln Thr Asp Lys Thr Asn Leu Lys Cys Ala Phe Ser Pro Ser Tyr			
210	215	220	
att aca gat aca caa aat aga tta aat gtt cca aaa gaa tgt tgg tat			720
Ile Thr Asp Thr Gln Asn Arg Leu Asn Val Pro Lys Glu Cys Trp Tyr			
225	230	235	240
aga gag tgt gct ttt tca cca aat tat cta tta tta act gac aat ata			768
Arg Glu Cys Ala Phe Ser Pro Asn Tyr Leu Leu Leu Thr Asp Asn Ile			
245	250	255	
aca tta aaa aat aat tgt tca ttg tct gaa tgt aat ata aat atc gga			816
Thr Leu Lys Asn Asn Cys Ser Leu Ser Glu Cys Asn Ile Asn Ile Gly			
260	265	270	
aat tta gat ata gta tct gcg tca gaa gta aca ata act tgc aat aat			864
Asn Leu Asp Ile Val Ser Ala Ser Glu Val Thr Ile Thr Cys Asn Asn			
275	280	285	
aat aaa tca aat act gta tca tca aga caa aaa tta gat ata tta ttg			912
Asn Lys Ser Asn Thr Val Ser Ser Arg Gln Lys Leu Asp Ile Leu Leu			
290	295	300	
aga gaa tca gaa gat tat aga ttt ttg tta act aac aac att tta ata			960
Arg Glu Ser Glu Asp Tyr Arg Phe Leu Leu Thr Asn Asn Ile Leu Ile			
305	310	315	320
tta att tta tta ttt ata ttt tta ata ttt tta ata att aga cat aat			1008
Leu Ile Leu Leu Phe Ile Phe Leu Ile Phe Leu Ile Ile Arg His Asn			
325	330	335	
taa			1011

<210> 75

<211> 293

<212> PRT

<213> Artificial Sequence

<220>

<223> HaEPV from Figure 10

<400> 75

Met Ser Phe Asn Pro Ile Ile Tyr Tyr Ile Ser Asp Ile Lys Asn Glu
1 5 10 15

Arg Pro Tyr Lys Lys Asn Thr Lys Pro Tyr Ile Phe Asn Phe Arg Lys
20 25 30

Pro Gly Gln Ile Lys Leu Leu Ile Asn Glu Ile Arg Phe Leu Thr Glu
35 40 45

Asp Val Glu Ile Tyr Lys Asn Tyr Asn Asn Lys Ile Ile Asn Ile Leu
50 55 60

Tyr Ile Gly Ser Gly Lys Gly Tyr His Ile Pro Leu Leu Met Glu Ile
65 70 75 80

Tyr Ser Lys Tyr Asn Ile Ile Trp His Leu Tyr Asp Pro Asn Gly His
85 90 95

Cys Asp Lys Leu Asn Glu Ile Ser Asn Lys Asn Asn Asn Val Asn Ile
100 105 110

Tyr Asn Gln Ile Phe Asp Lys Lys Asp Val Glu Leu Tyr Glu Asp Val
115 120 125

Gln Asn Leu Leu Phe Ile Ser Asp Ile Arg Thr Ile Asp Asp Asp Lys
130 135 140

Ile Glu Pro Asn Thr Lys Asn Leu Ile His Asp Tyr Asp Ile Gln Asn
145 150 155 160

Tyr Val Leu Lys Gln Leu Lys Pro Ile Ala Leu Ile Lys Gln Arg Asp
165 170 175

Pro Phe Pro Asn Asp Trp Asp Glu Ser Tyr Glu Met Tyr Ile Pro Asp
180 185 190

Gly Lys Glu Tyr Val Gln Cys Phe Gln Lys His Asp Ser Ala Glu Tyr
195 200 205

Arg Ile Phe Val Cys Gly Ala Thr Thr Phe Thr Lys Val Asn Leu Asp
210 215 220

Val Leu Lys Thr Arg Asn Ile Asp Lys Lys Leu Ala Trp Tyr Asn Thr

225 230 235 240
 Lys Tyr Arg Phe Asp Asn Phe Asn Asp Tyr Arg Ile Ala Tyr Arg Val
 245 250 255
 Leu Asn Lys Tyr Leu Lys Thr Glu Asn Leu Pro Phe Leu Lys Tyr Thr
 260 265 270
 Asp Ile Asn Lys Asn Asn Ile Lys Ser Val Ile Lys Ser Ile Ser Lys
 275 280 285
 Thr Ile Asn Asp Asn
 290

<210> 76

<211> 295

<212> PRT

<213> Artificial Sequence

<220>

<223> MSV041 from Figure 10

<400> 76

Met Ser Ile Tyr Met Lys Ile Asn Asp Phe Lys Lys Pro Asn Val Leu
 1 5 10 15

Ile Phe Asp Asn Ile Asn Asn Gln Leu Lys Tyr Lys Pro Asn Asn Val
 20 25 30

Ser Asn Lys His Pro Gly Gln Leu Lys Leu Leu Met Thr Glu Leu Gln
 35 40 45

Phe Phe Asn Asn Cys Asn Ile Asp Ala Leu Asn Ser Lys Asp Arg Pro
 50 55 60

Ile Tyr Val Leu Tyr Ile Gly Ser Gly Arg Gly Tyr His Leu Ile Lys
 65 70 75 80

Leu Leu Asp Leu Tyr Lys Asp Tyr Asn Ile Lys Trp Tyr Phe Tyr Asp
 85 90 95

Pro Ser Gly His Cys Ile Ser Leu Glu Arg Met Ser Gln Tyr Val Ser
 100 105 110

Ile Asn Asn Asp Tyr Phe Thr Glu Lys Asn Ile Asn Glu Phe Lys Asn
 115 120 125

Lys Lys Pro Leu Leu Phe Ile Ser Asp Ile Arg Ser Thr Asp Gly Ser
 130 135 140

Glu Pro Arg Thr Lys Asn Leu Ile Asp Asp Tyr Lys Ile Gln Asn Asn
 145 150 155 160

Ile Val Leu Asn Leu Arg Pro Leu Tyr Ser Leu Leu Lys Phe Arg Tyr
 165 170 175

Pro Phe Pro Asp Asp Phe Pro Pro Glu Ile Glu Asn Glu Val Tyr Val
 180 185 190

Asp Gly Ile Lys Phe Leu Gln Pro Phe Cys Gly Pro Gln Ser Thr Glu
 195 200 205

Met Arg Ile Phe Val Ser Glu Gln Asn Ile Ile Leu Lys Asn Phe Ser
 210 215 220

Lys Glu Glu Ser Ile Leu Phe Glu Glu Lys Met Tyr Tyr Tyr Asn Lys
 225 230 235 240

Asn Tyr Arg Ile Ile Asn Lys Asn Asp Ile Leu Ile Ala Gly Phe Ile
 245 250 255

Leu Lys Ser Thr Asn Lys Phe Asp Asn Met Lys Tyr Ile Asp Ile Ile
 260 265 270

Lys Ser Leu Glu Asn Ser Ile Asn Asn Gln Ile Arg Glu Asp Ile Ser
 275 280 285

Phe Asn Lys Leu Asp Ile Lys
 290 295

<210> 77

<211> 333

<212> PRT

<213> Artificial Sequence

<220>

<223> VVJ3R from Figure 10

<400> 77

Met Asp Val Val Ser Leu Asp Lys Pro Phe Met Tyr Phe Glu Glu Ile
 1 5 10 15

Asp Asn Glu Leu Asp Tyr Glu Pro Glu Ser Ala Asn Glu Val Ala Lys
 20 25 30

Lys Leu Pro Tyr Gln Gly Gln Leu Lys Leu Leu Leu Gly Glu Leu Phe
 35 40 45

Phe Leu Ser Lys Leu Gln Arg His Gly Ile Leu Asp Gly Ala Thr Val
 50 55 60

Val Tyr Ile Gly Ser Ala Pro Gly Thr His Ile Arg Tyr Leu Arg Asp
 65 70 75 80

His Phe Tyr Asn Leu Gly Met Ile Ile Lys Trp Met Leu Ile Asp Gly
 85 90 95

Arg His His Asp Pro Ile Leu Asn Gly Leu Arg Asp Val Thr Leu Val
 100 105 110

Thr Arg Phe Val Asp Glu Glu Tyr Leu Arg Ser Ile Lys Lys Gln Leu
 115 120 125

His Pro Ser Lys Ile Ile Leu Ile Ser Asp Val Arg Ser Lys Arg Gly
 130 135 140

Gly Asn Glu Pro Ser Thr Ala Asp Leu Leu Ser Asn Tyr Ala Leu Gln
 145 150 155 160

Asn Val Met Ile Ser Ile Leu Asn Pro Val Ala Ser Ser Leu Lys Trp
 165 170 175

Arg Cys Pro Phe Pro Asp Gln Trp Ile Lys Asp Phe Tyr Ile Pro His
 180 185 190

Gly Asn Lys Met Leu Gln Pro Phe Ala Pro Ser Tyr Ser Ala Glu Met
 195 200 205

Arg Leu Leu Ser Ile Tyr Thr Gly Glu Asn Met Arg Leu Thr Arg Val
 210 215 220

Thr Lys Ser Asp Val Val Asn Tyr Glu Lys Lys Met Tyr Tyr Leu Asn
 225 230 235 240

Lys Ile Val Arg Asn Lys Val Val Val Asn Phe Asp Tyr Pro Asn Gln
 245 250 255

Glu Tyr Asp Tyr Phe His Met Tyr Phe Met Leu Arg Thr Val Tyr Cys
 260 265 270

Asn Lys Thr Phe Pro Thr Thr Lys Ala Lys Val Leu Phe Leu Gln Gln
 275 280 285

Ser Ile Phe Arg Phe Leu Asn Ile Pro Thr Thr Ser Thr Glu Lys Val
 290 295 300

Ser His Glu Pro Ile Gln Arg Lys Ile Ser Ser Lys Asn Ser Met Ser
 305 310 315 320

Lys Asn Arg Asn Ser Lys Arg Ser Val Arg Gly Asn Lys
 325 330

<210> 78

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Consensus from Figure 10

<400> 78

Pro Asn Tyr Leu Phe Tyr Ile Gly Ser His Leu Ile Trp Asp Ile Asp
 1 5 10 15

Leu Tyr Gln Asn Leu Pro Lys Gly Ser Arg Lys Asn Asn Tyr
 20 25 30

<210> 79

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Insect Cons from Figure 10

<400> 79

Pro Asn Tyr Leu Phe Asn Leu Tyr Ile Gly Ser Tyr His Leu Tyr Ile
 1 5 10 15

Trp Tyr Asp Cys Phe Leu Ile Asp Leu Tyr Gln Asn Leu Pro Leu Lys
 20 25 30

Gly Ser Arg Lys Tyr Asn Asn Asp Ile Leu Asn Tyr Ile Lys
 35 40 45

<210> 80

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> AmEPV Cons from Figure 10

<400> 80

Pro Tyr Tyr Asp Asn Tyr Asp Asn Asn Lys Lys Leu Ile Phe Leu Asn
 1 5 10 15

Asn Asn Ile Leu Tyr Ile Gly Ser Lys Tyr His Leu Tyr Ile Gln Trp

20

25

30

Tyr Asp Cys Asn Ile Phe Asp Leu Ile Asp Asp Asp Asn Leu Tyr Gln
35 40 45

Asn Ile Leu Pro Ser Leu Lys Asn Trp Ser Gly Tyr Ser Arg Ile Lys
50 55 60

Tyr Asn Asn Asp Ile Ile Leu Asn Lys Asn Tyr Asn Ile Lys Lys Ile
65 70 75 80